PANASONIC NV-F55

MODEL

USER'S MANUAL

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Information for Your Safety

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

Remarks

1. This VTR is capable of receiving SECAM type broadcasting programmes (SECAM B/G) and recording/playing back its colour television signals.
2. When a cassette which has been recorded on this VTR is played back on a SECAM VTR, the picture may be reproduced in black and white. When it is played back on a PAL VTR without SECAM capability, the picture may be not reproduced in normal colour.
3. When cassettes recorded on a SECAM VTR or SECAM pre-recorded cassettes are played back on this VTR, the picture is reproduced in black and white.
4. This VTR is not designed for use in France, where a SECAM VTR should be used instead.

This model conforms to the EC directive (for radio interference) 87/308/EEC.

FOR YOUR SAFETY

■ **DO NOT REMOVE OUTER COVER.**

To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

Cautions

Please read these cautions before you operate this VTR.

Cassette Compartment Door

When first unpacking the unit, you may notice that the cassette compartment door is partially open. This condition is due to the operation of a safety device designed to protect the unit from vibration during shipment; it is not a malfunction. When the AC mains lead is connected to a mains outlet, the door will return to its original position.

Avoid Sudden Changes in Temperature

If the VTR is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the VTR.

Humidity and Dust

Avoid places where there is high humidity or much dust, which may cause damage to internal parts.

Do Not Obstruct the Ventilation Holes

The ventilation holes prevent abnormal increase in temperature. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Keep away from High Temperature

Keep the VTR away from extreme direct heat such as direct sunlight, heating radiators, or closed automobiles.

Keep Magnets away

Never bring a magnet or magnetized object near the VTR because it will adversely affect the performance of the VTR.

No Fingers or Other Objects Inside

Touching internal parts of this VTR is dangerous, and may cause serious damage to the VTR. Do not attempt to disassemble the VTR. There are no user serviceable parts inside.

Keep Water away

Keep the VTR away from flower vases, tubs, sinks, etc. CAUTION: If liquids are spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, consult qualified service personnel.

Lightning

To avoid damage by lightning, disconnect the aerial plug from the VTR.

Cleaning the VTR

Wipe the VTR with a clean, dry cloth. Never use cleaning fluid, or other chemicals. And do not use compressed air to remove dust.

Stacking

Place the VTR in a horizontal position, and do not place anything heavy on it.

Video Head Clogging

The video heads place picture signals on the tape during recording and read picture signals from the tape during playback and they are, therefore, of critical importance for the picture quality. To ensure that they can always provide optimum picture quality, this VTR is equipped with an Auto Head Cleaning Function that removes tape particles and dust from the video heads. However, if the VTR is used over extremely long periods of time, these heads may still become dirty and clogged. In such a case, the signals can no longer be recorded correctly, and the playback picture will be distorted accordingly. This is the case, for example, during the playback of a tape, the sound is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such a symptom case occurs have the recorder checked by qualified service personnel.

Condensation may form in the VTR if:

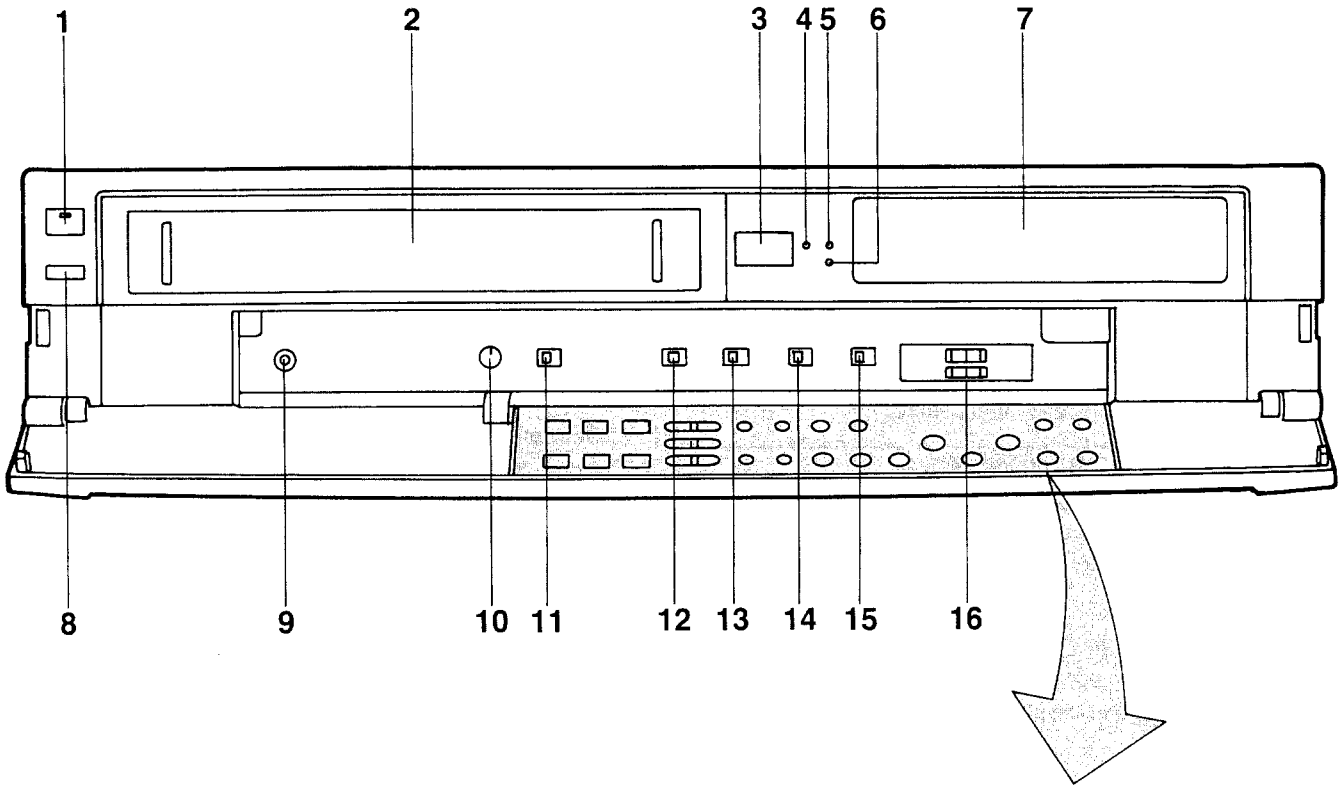
- The VTR is in a room where the heater has just been turned on.
- The VTR is in a room with steam or high humidity.
- The VTR is brought from cold surroundings into a well-heated room.
- The VTR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

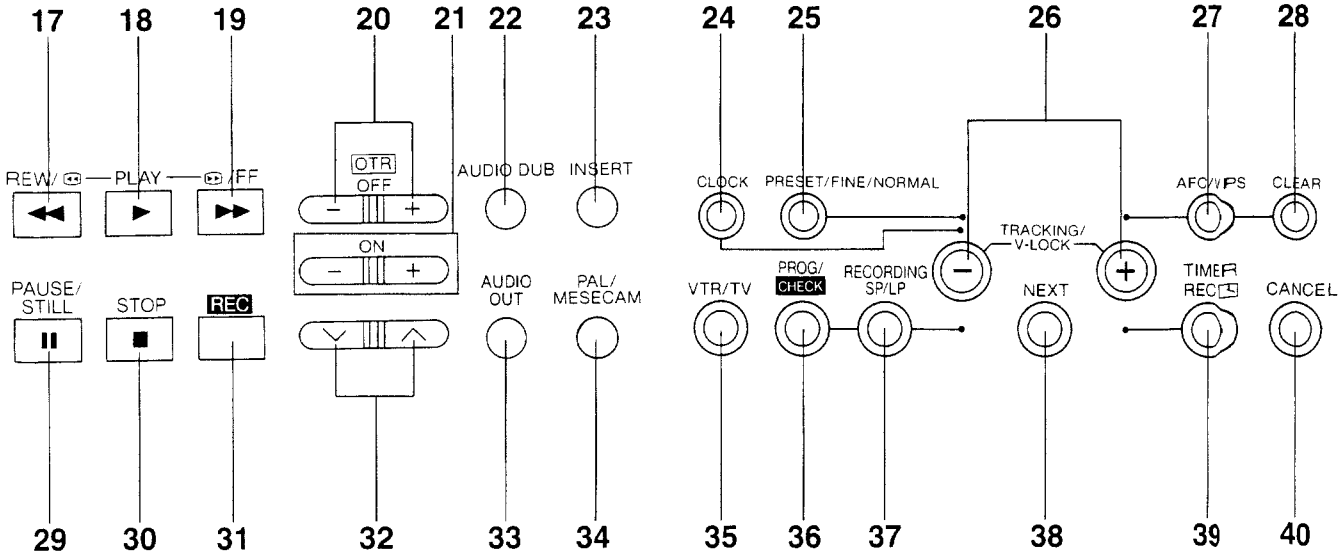
Note:
Do not operate the VTR for at least 1 hour if any of the above conditions occur.
This VTR does not incorporate a dew sensor.

ENGLISH

Controls and Components

FRONT





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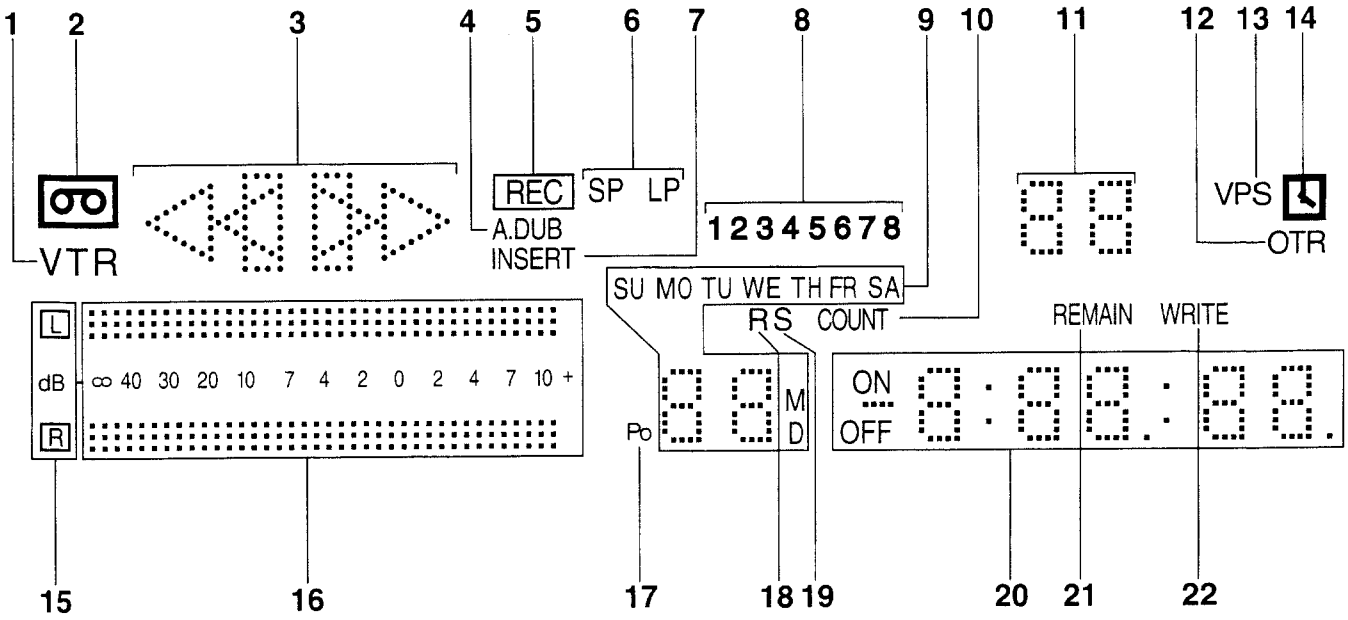
ENGLISH

Controls and Components (Cont'd)

Multi-Function Display



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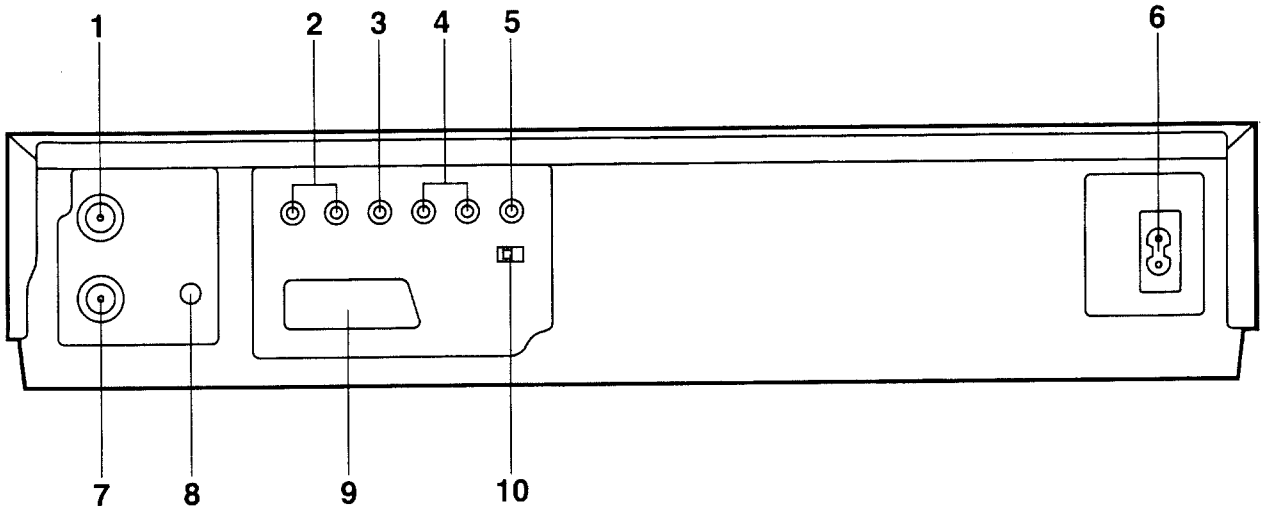
REAR



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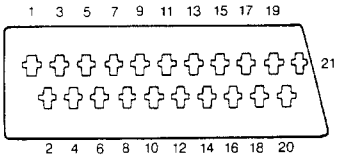
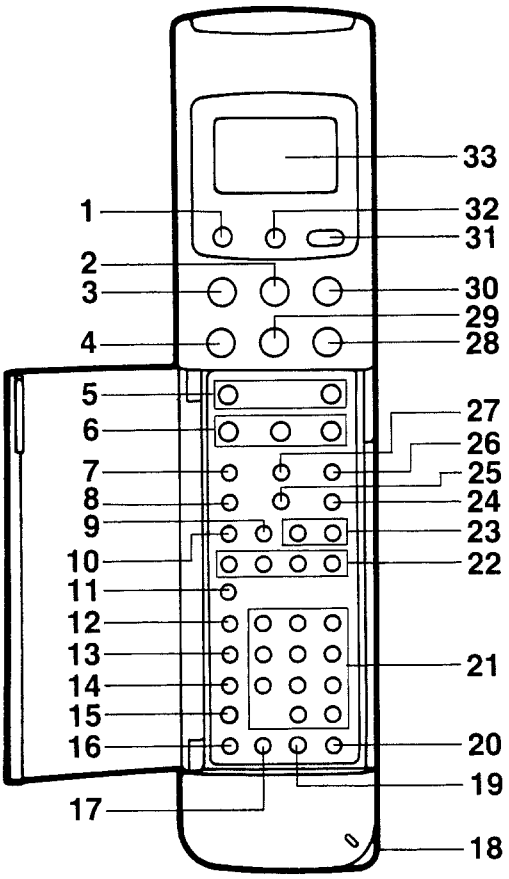
Connections of the Euro AV Socket



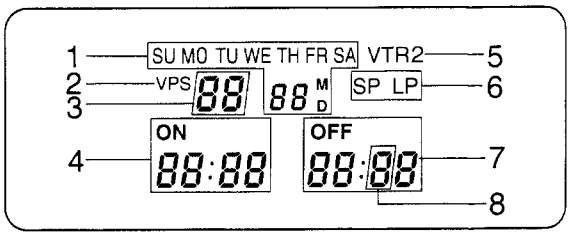
1	AUDIO OUTPUT CH2 (R)	11	No connection
2	AUDIO INPUT CH2 (R)	12	No connection
3	AUDIO OUTPUT CH1 (L)	13	No connection
4	AUDIO GND	14	No connection
5	No connection	15	No connection
6	AUDIO INPUT CH1 (L)	16	No connection
7	No connection	17	VIDEO GND
8	SWITCHING VOLTAGE	18	No connection
9	No connection	19	VIDEO OUTPUT
10	No connection	20	VIDEO INPUT
		21	GND

ENGLISH

Infra-Red Remote Controller



1 VTR On/Off Button
2 Stop Button (■)
3 Pause/Still Button (❚❚)
4 Rewind ◄◄/Review ⏪ Button
5 Record Buttons
6 Slow Buttons
7 Clock/Counter Selector
8 Monitor Button
9 Time Search Button
10 Index Button
11 Audio Output Selector
12 Programme Button
13 Next Button
14 Tape Speed Selector
15 VPS Button
16 Timer Record Button
17 Cancel Button
18 Bar Code Reading Section
19 PAL/MESECAM Selector
20 Remote Control Mode Select Button
21 Programme Position (Channel) Selector Buttons
22 Auto Play Buttons
23 Tracking/V-Lock "+" and "−" Buttons
24 Input Signal Selector
25 VTR/TV Selector
26 Reset Button
27 Tape Remain Button
28 Fast Forward ►►/Cue ⏩ Button
29 Play Button (►)
30 Still Advance Button (⏭)
31 Transmit Button
32 Digital Scanner On/Off Button
33 Display



1 Date Display
2 VPS Indicator
3 Channel Display
4 Start Time Display
5 Remote Control Mode Indicator
6 Tape Speed Indicator
7 End Time Display
8 Check Indicator

Infra-Red Remote Controller (Cont'd)

Power Source for the Remote Controller

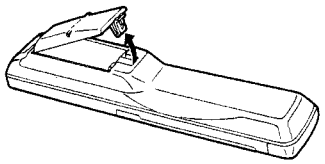
■ The Remote Controller is powered by 2 IEC "R6" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT

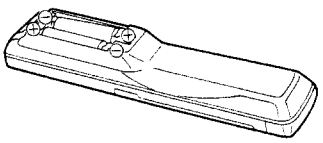
- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

Load the batteries as follows:

1 Remove the battery compartment lid.



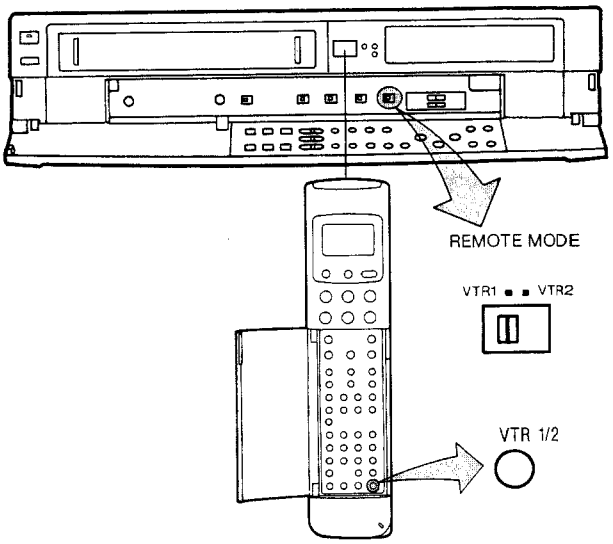
2 Place the batteries in the battery compartment as indicated inside the battery compartment.



3 Replace the lid.

Remote Control Modes

This VTR can be remote controlled with two types of signals. These signals are called Remote Control Mode "VTR 1" and "VTR 2".

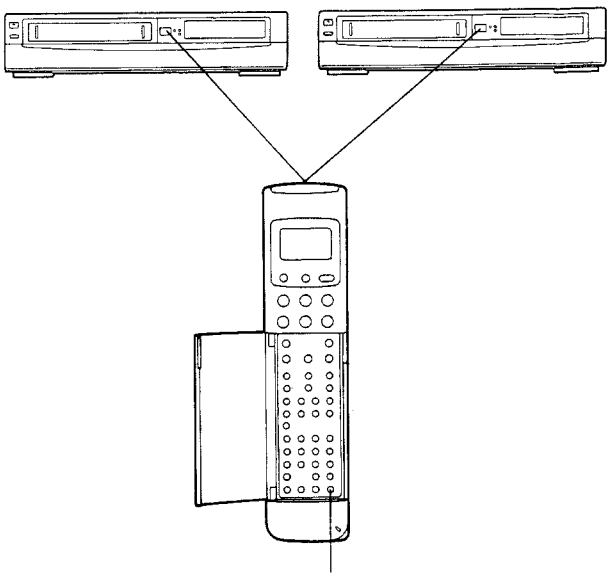


When the Remote Control Mode Select Switch on the VTR is set to "VTR 1", the Remote Control Mode Select Button on the Remote Controller must also be set to "VTR 1".

When using two Panasonic VTRs

Remote Control Mode "VTR 1"

Remote Control Mode "VTR 2"



When the Remote Control Mode Select Button on the Remote Controller is set "VTR 1", the VTR on the left can be operated. When the Remote Control Mode Select Button is set to "VTR 2", the VTR on the right can be operated.

- "VTR 2" will appear in the Display.

In case of VTRs with switchable remote control modes, set a different remote control mode for each of the VTRs so that they can be operated individually with the same Remote Controller.

ENGLISH

Infra-Red Remote Controller (Cont'd)

How to Operate the Remote Controller (Digital Scanner)

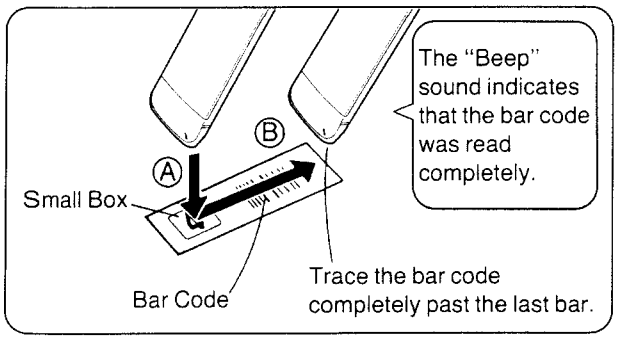
Press the Digital Scanner On/Off Button to "ON".

- If no operation is performed for more than 25 seconds (4 minutes during setting of the clock time), the scanner will automatically switch over to the power-saving standby condition and the lamp will go off. (In this case, if bar codes have already been read but not yet transmitted to the VTR, the data will be cancelled.)
- When the lamp is not lit, press the button to turn it "ON" again.

Tracing the Bar Codes

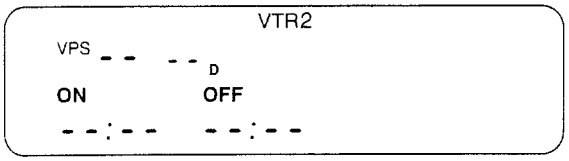
(A) Place the Remote Controller on the Small Box.

(B) Trace the bar code quickly in the direction of the arrow.


The "Beep" sound indicates that the bar code was read completely.
Small Box
Bar Code
Trace the bar code completely past the last bar.

When Remote Control Mode "VTR 2" is selected on the VTR

Trace the "VTR 2" bar code on the Programming Sheet.



- "VTR 2" will appear in the Display.

When the "VTR 1" bar code is traced, the "VTR 2" Indication will disappear and the remote control mode is changed back to "VTR 1".

Multi-Language Instruction Stickers (NV-F55EV)

To facilitate the use of the Programming Sheet, select the stickers with the instructions in your own language and attach them on the English indications on the Programming Sheet.

- Treat the Programming Sheet with care. If the sheet gets dirty or scratched, the bar code reading may become impossible.
- Protect the Remote Controller from strong shocks and vibration. Keep it away from water and places with high temperature and humidity.
- If the bar code is traced slowly, it cannot be read correctly.
- When there is no "Beep" sound, the reading of the bar code is incomplete. Trace the bar code again.
- When using the Programming Sheet, put it on flat surface: Reading the bar codes while holding it in your hand or bending it, may result in incorrect operation.
- Do not deviate from the bar code, nor stop tracing halfway.

Note:

- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver in the VTR is about 30° for each side from the centre.
- The unit should be used within a range of about 7 meters from the front of the VTR.

Recommendation

After the programming of timer recording(s) is completed, press the Digital Scanner On/Off Button so that the indications in the Display disappear, in order to save battery power.

When the Bar Codes Cannot be Read

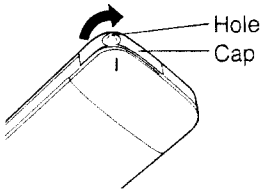
Although the lamp in the tip of the Bar Code Reading Section lights up:

- No figures appear in the Display
- No beep sounds is heard;

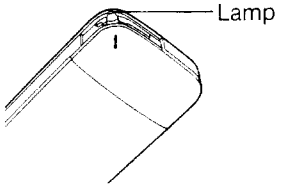
The tip of the Bar Code Reading Section is probably clogged with dirt.

Cleaning

1 Remove the cap of the Bar Code Reading Section.
- Remove dirt and dust from the hole of the cap.



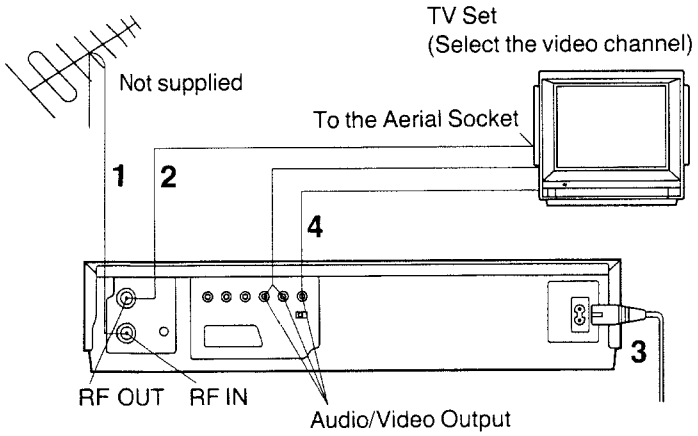
2 Gently wipe the tip of the lamp with a soft cloth.
- Reattach the cap by inserting it until it locks with a click.



Installation

Consult your Panasonic dealer for advice about a suitable cable to use for connection to the Euro AV Socket. Connecting the VTR to the TV set via the Euro AV Socket of both units assures optimum picture quality.

Connection to a TV Set without Euro AV Socket



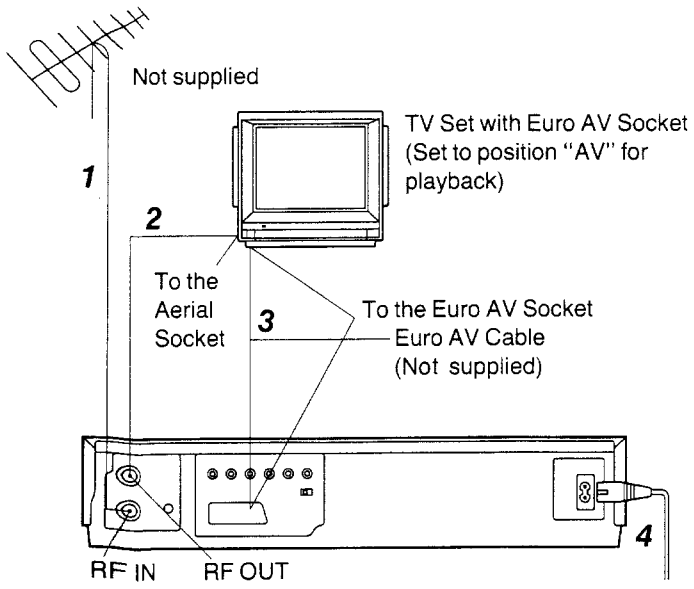
1 Connect the external aerial to the RF Input Socket on the VTR.

2 Connect the aerial terminal on your TV set to the RF Output Socket on the VTR with the supplied DIN-DIN Coaxial Cable.

3 Connect the AC Mains Lead to the AC Mains Socket of the VTR to the mains outlet.

4 If the TV set is equipped with separate video and audio input sockets, it is recommended to connect the VTR to the TV set with separate video and audio cables.

Connection to a TV Set with Euro AV Socket



1 Connect the external aerial to the RF Input Socket on the VTR.

2 Connect the aerial terminal on your TV set to the RF Output Socket on the VTR with the supplied DIN-DIN Coaxial Cable.

3 Connect the Euro AV Socket on the VTR to the Euro AV Socket on the TV set.
- The Euro AV Socket allows recording and playback of picture and sound. This connection can be used with TV sets which are also equipped with a Euro AV Socket.

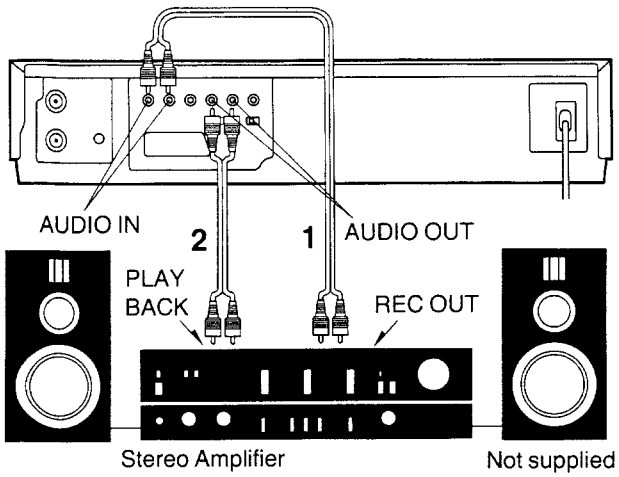
4 Connect the AC Mains Lead to the AC Mains Socket of the VTR to the mains outlet.

- If a Euro AV cable is used for the VTR-to-TV connection and both the VTR and the TV offer a setting for "Euro AV", set only one of them to "Euro AV". If both are set to "Euro AV", picture and sound distortion may appear with some types of TV sets.
  On this VTR, the "Euro AV" setting is programme position "A1". Select it with the Input Signal Selector on the Remote Controller or the Channel Selection Up or Down Button on the VTR.
- Some TV sets can automatically switch to the "Euro AV" input mode when VTR playback starts via the Euro AV cable. But some TV sets have to be switched manually to the Euro AV mode.
- For recording from a TV's tuner via the Euro AV cable, set the VTR to the Euro AV mode.

ENGLISH

Installation (Cont'd)

Connection to a Stereo Amplifier

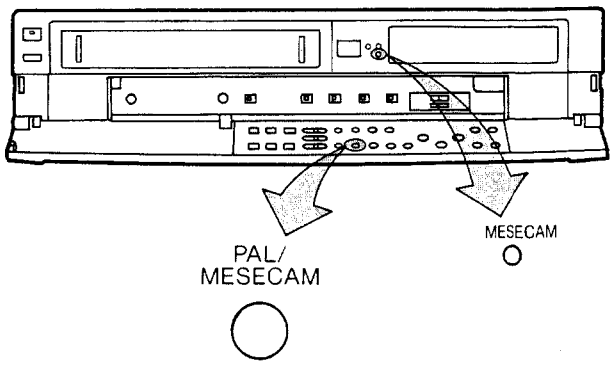


1 Connect the Audio Input Sockets on the VTR to the REC OUT Sockets on the Stereo Amplifier.

2 Connect the Audio Output Sockets on the VTR to the PLAYBACK Sockets on the Stereo Amplifier.

PAL/MESECAM Selector

This selector should be set according to the colour TV system used during recording and playback.
When the MESECAM Indicator is lit, the MESECAM system is selected.



During AV Signal Input
- PAL: When receiving PAL signals
- MESECAM: When receiving SECAM signals

During Playback
- PAL: When playing back a tape recorded in the PAL system
- MESECAM: When playing back a tape recorded in the MESECAM system

When recording broadcast signals from the built-in tuner in this VTR, the PAL/MESECAM Selector cannot be used, because the system is locked to the preset system.

VTR/TV Selector Button

With this button, distortion caused by interference between TV broadcast signal and output signal from the VTR (UHF channel 36±4) can be prevented. Use this button according to the following table.

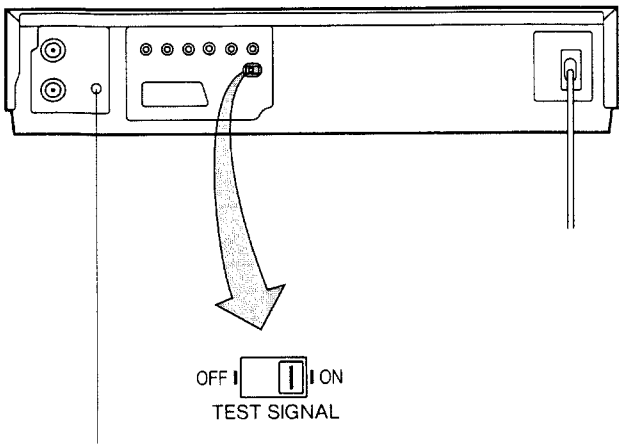
From the RF Output Socket of the VTR either signals of TV broadcasts or from the VTR (RF convertor) are output.

VTR	TV Set	Indication in the VTR Display
VTR OFF	TV reception is possible.	None
VTR PLAY (playback)	TV reception is not possible.	VTR
VTR from PLAY to STOP	TV reception is not possible.	VTR

TV reception can only be restored by pressing the VTR/TV Selector Button. The "VTR" Indication in the Display will disappear.

Tuning the TV Set to the Video Playback Channel

The adjustments described on this page are not necessary, if the VTR is connected to the TV set via the Euro AV sockets or Video/Audio output sockets.

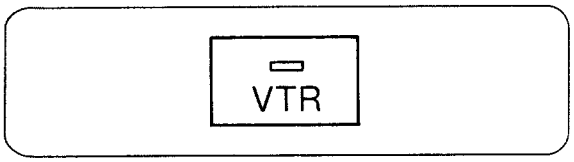


Video Playback Channel Adjustor
To change the video playback channel

1 Turn the TV set on and select the AV programme position or another programme position that is not occupied by any TV station.

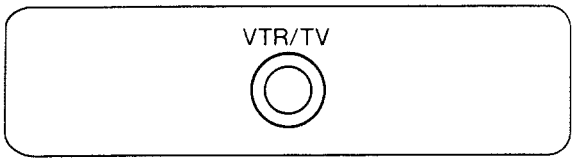
2 Press the VTR On/Off Switch to turn the VTR On.

(FRONT SIDE)

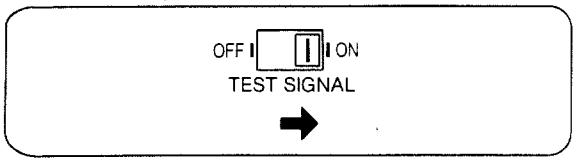


- The corresponding indicator lights up.

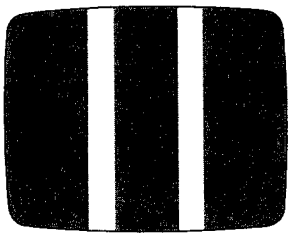
3 Press the VTR/TV Selector so that the "VTR" Indicator in the Multi-Function Display lights up.



4 Set the Test Signal Switch to "On".

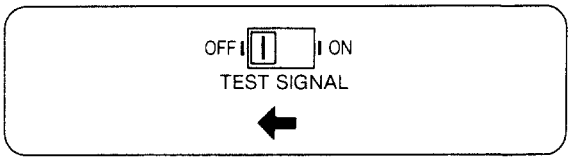


5 Tune the selected programme position of the TV set to UHF approx. channel 36.
Confirm on your TV set that the received test pattern is as shown.



- If UHF channel 36 is already occupied by a TV station in your area, the video playback channel can be changed from channel 32 to 40 on the back of the VTR by using a small screwdriver.

6 Set the Test Signal Switch to "Off". Your TV is now ready to receive the RF output signal from the VTR.



- When using the test pattern to tune the TV set to the video playback channel of the VTR, make sure that the two units are not connected via AV cable.

DBS (NV-F55EG)

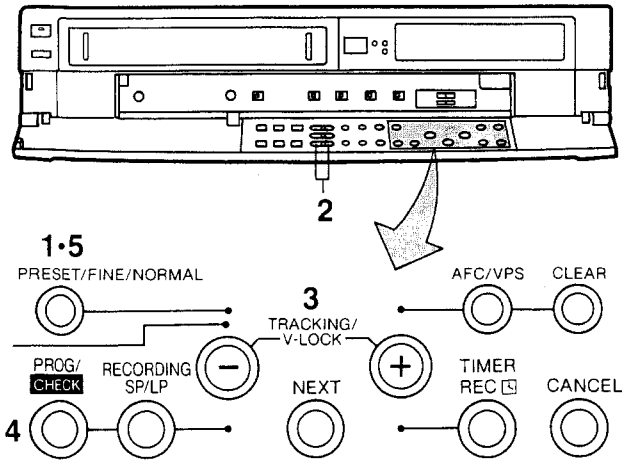
The DBS satellite channels can be memorized on the programme positions 90–99.
When a Pay TV or Satellite TV (PAL) Decoder (descrambler) is connected to the VTR, and a programme position between 90 and 99 is selected, the picture of the selected DBS broadcast appears on the TV screen.
(Model NV-F55EV is not equipped with this function.)

- However, the output signal of the TV tuner in the VTR will in this case be output from pin 19 (VIDEO OUT) of the Euro AV Socket.

ENGLISH

Setting the Tuner in the VTR

The tuner in the VTR makes it possible to receive TV broadcasts and to record these programmes without having to turn on the TV set. (The reception of special channel is possible.)



Preparation

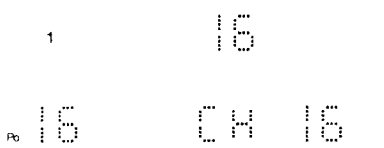
- Turn the TV set on and select the programme position (channel) which you have tuned to the video playback channel.
- Press the VTR On/Off Switch to turn the VTR on.
- Press the VTR/TV Selector so that the "VTR" Indicator in the Multi-Function Display lights up.

Tuning Procedure

1 Press the Preset/Fine/Normal Button on the VTR. The indication on the Multi-Function Display changes from the clock indication to the position indication.

2 Press the Channel Up or Down Button to select a programme position (channel) which you want to tune to a TV station.

Display of the programme positions 1–99



Indication of the TV channel

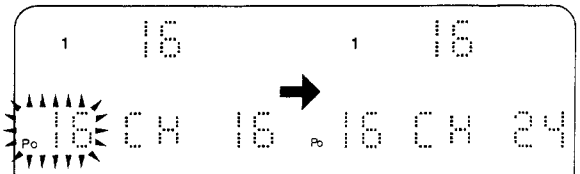
Channel Indication	TV Channel	
	Germany/Italy	Other Countries
2–12	*E2–E12	E2–E12
13–20	A–H (Only Italy)	——
21–69	21–69	21–69
74–76	——	S1–S3
80–82	——	M1–M3
83–89	S4–S10	M4–M10
90–99	S11–S20	U1–U10
121–141	S21–S41 (Only Italy)	S21–S41

*In Italy: H1...(11), H2...(12)

NV-F55EG

On the programme positions (channels) 1–89, normal TV stations can be tuned.
On the programme positions (channels) 90–99, DBS TV stations can be tuned.
The tuner in the VTR can be preset with up to 99 stations.

3 Press the "+" or "−" Button.



During the station search (The position indication flashes on and off.)

Tuned Condition

- When the tuning of the station is completed, the indication stops flashing and the tuned station is automatically memorized.
- At every push of the "+" or "−" Button, the station will be tuned automatically.

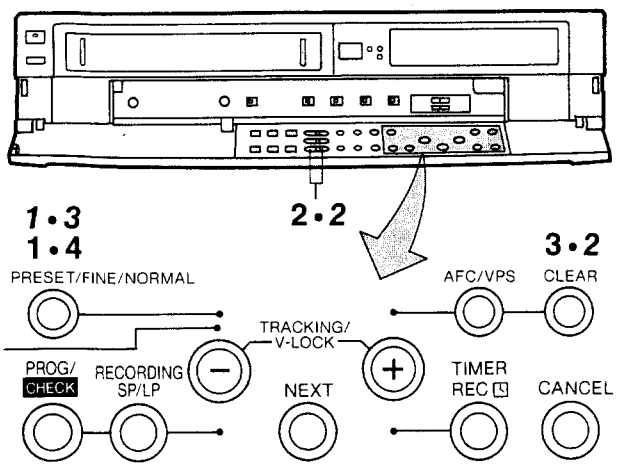
4 Use the Programme/Check Button to select the broadcasting system for the TV station to be tuned. In the Multi-Function Display, "1" (PAL) or "2" (MESECAM) will be displayed.

- 1 (PAL) ..... For receiving PAL system broadcasts
- 2 (MESECAM) .. For receiving SECAM system broadcasts
  The MESECAM Indication Lamp lights up.

Repeat steps 2–4 for each channel you want to tune to a station.

5 Press the Preset/Fine/Normal Button twice. The indication on the Multi-Function Display changes back to the previous indication.

Setting the Tuner in the VTR (Cont'd)

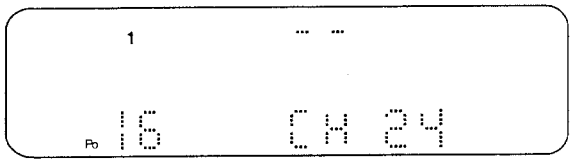


Blanking of Unoccupied Programme Positions

1 Press the Preset/Fine/Normal Button.

2 Press the Channel Up or Down Button to select a programme position (channel) which you do not want to tune to a TV station.

3 Press the Clear Button ("– –" will be displayed in the Programme Position Indication).



- Repeat steps 2 and 3 for any programme positions on which no stations are to be tuned. Afterwards, these programme positions will be skipped during Up/Down selection of the programme position.

4 Press the Preset/Fine/Normal Button twice.

Cancelling the Clear Function (Blanking)

1 Press the Preset/Fine/Normal Button.

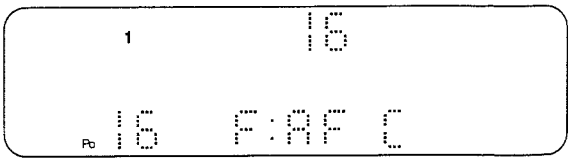
2 To cancel the blanking of a programme position, select that programme position on the VTR and then press the Clear Button.

3 Press the Preset/Fine/Normal Button twice.

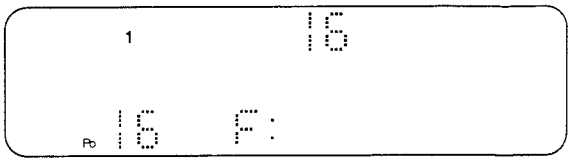
Fine Tuning Procedure

If fine tuning is necessary, for example for a weak station which is close to a strong station:

1 Press the Preset/Fine/Normal Button twice.



2 Press the "+" or "–" Button to obtain the best tuning condition.



- "AFC" Indicator will not be displayed.

- To return the tuning to its former state, press the AFC/VPS Button.

3 Press the Preset/Fine/Normal Button.

How to Select the Programme Position (Channel) on the Remote Controller

select channel	press button	
1–9	(1) — (9)	respective channel
10	(-/--) → (1) → (0)	
20	(-/--) → (2) → (0)	
11–99 for example 32	(-/--) → (3) → (2)	

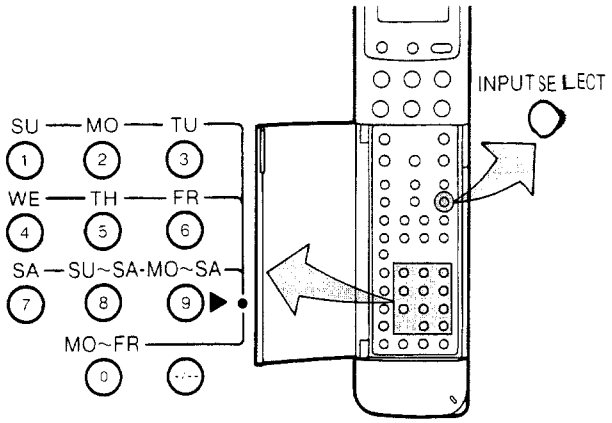
If more than 5 seconds pass between the first, second and third push, the channel will not be changed normally.

To Select an External AV Source:

Press the Input Signal Selector to select the "A1" or "A2" programme position.

A1: To select the signals which are input via the Euro AV Socket.

A2: To select the signals which are input via the Audio/Video Input Socket.



ENGLISH

Setting the Tuner in the VTR (Cont'd)

Setting the Tuner in the VTR Using the Digital Scanner

- Use the bar codes on page 99.

Preparations

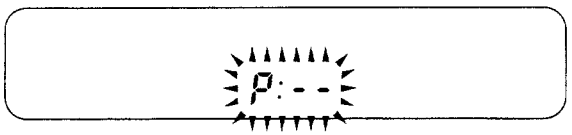
- Turn the VTR on.
- Press the Digital Scanner On/Off Button on the Remote Controller to turn it on.

1 Trace the "PRESET ON" bar code.

- If no operations are performed within more than 4 minutes, the Digital Scanner will automatically turn itself off.

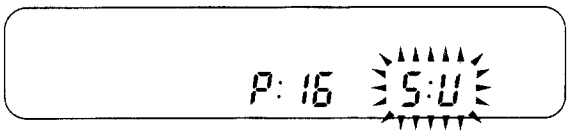
2 Press the Transmit Button to transmit to the VTR.

3 Trace the "PROGRAMME POSITION" bar code.



4 Trace the number bar code for the programme position (channel) that you want to tune to a station.

5 Trace the "SEARCH UP" or "SEARCH DOWN" bar code.



6 Press the Transmit Button to transmit to the VTR.

- The channel will be tuned automatically.
- At every push of the button, the next channel will be tuned.

7 When the Indication in the Multi-Function Display does not show the correct broadcasting system ("1"=PAL; "2"=MESECAM) for the station to be tuned, trace and transmit the PAL/MESECAM bar code to select the correct broadcasting system.

8 Trace the "PRESET OFF" bar code.

9 Press the Transmit Button.

- If you make a mistake in the above operation steps, trace the "CANCEL" bar code and start again from step 4.
- When setting more than 2 channels, repeat the steps 3–7 above.

Setting the Tuner Directly

Perform the operation steps 1 to 4.

5 Trace the bar code "CHANNEL SET".

6 Trace the number of the channel for the TV station that you want to tune.

- When tuning a TV station in the hyperband, trace the bar code "CHANNEL 100~" and then trace the bar code "CHANNEL".

7 Press the Transmit Button to transmit to the VTR.

8 When the Indication in the Multi-Function Display does not show the correct broadcasting system ("1"=PAL; "2"=MESECAM) for the station to be tuned, trace and transmit the PAL/MESECAM bar code to select the correct broadcasting system.

9 Trace the bar code "PRESET OFF".

10 Press the Transmit Button.

If you want to tune further TV stations, repeat the steps 3 to 8.

Blanking of Unoccupied Programme Positions

1 Trace the "PRESET ON" bar code.

2 Press the Transmit Button to transmit to the VTR.

3 Trace the "PROGRAMME POSITION" bar code.

4 Trace the number bar code for the programme position that you want to blank so that it will be skipped during Up/Down selection of the programme positions.

5 Trace the "CLEAR ON" bar code.

6 Press the Transmit Button to transmit to the VTR.

7 Trace the "PRESET OFF" bar code.

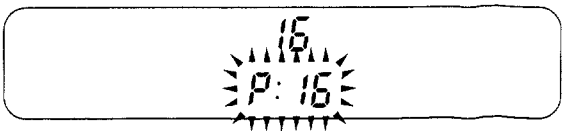
8 Press the Transmit Button.

Cancelling the Clear Function (Blanking)

Perform the operation steps 1–3 above.

4 Trace the bar code for the programme position that has been blanked until now.

5 Trace the "CLEAR OFF" bar code.

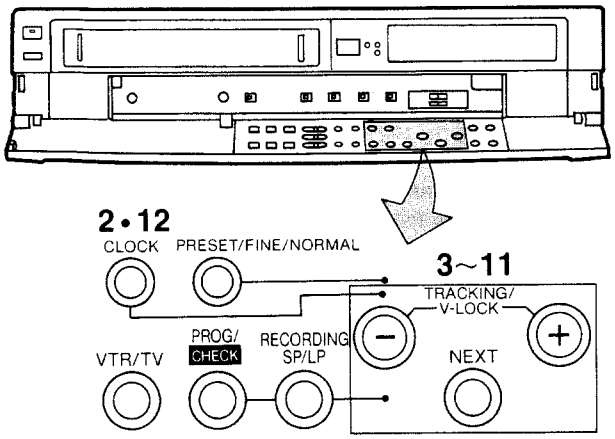


Perform the operation steps 6–8 above.

- To programme a timer recording or the set the clock time immediately after setting the tuner in the VTR by using the Remote Controller, first press the Digital Scanner On/Off Button on the Remote Controller to turn it off, before starting the above operation.

Setting the Clock to the Present Time

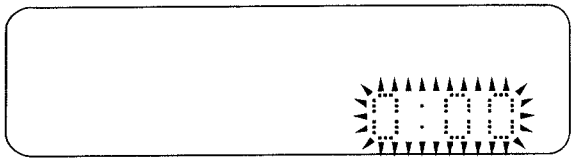
The built-in digital clock employs the 24-hour system.



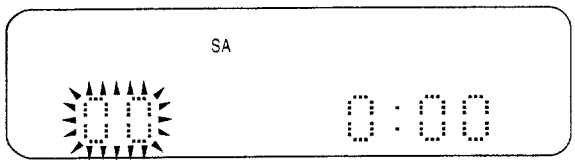
For Example: Set the clock for Sunday, October 10, 1999, 9:10.

- Connect the VTR to the mains outlet.
- Press the VTR On/Off Switch to turn the VTR On.

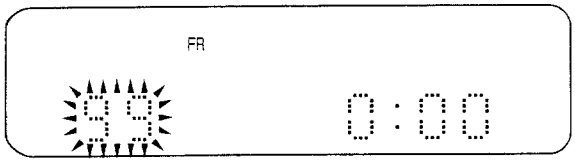
1 When connecting this VTR to the mains or after a long power failure, the indications flash.



2 Press the Clock Button to start the date and time setting.

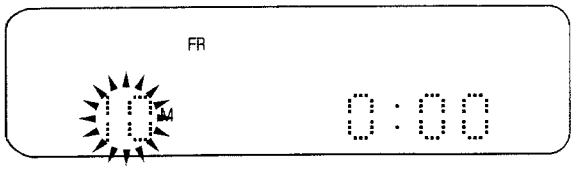


3 Press the "+" or "−" Button to set the year.



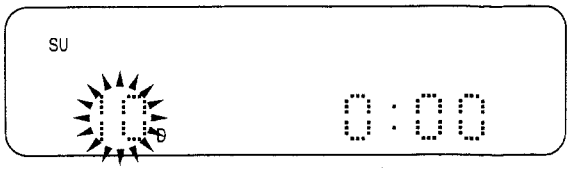
4 Press the Next Button.

5 Press the "+" or "−" Button to set the month.



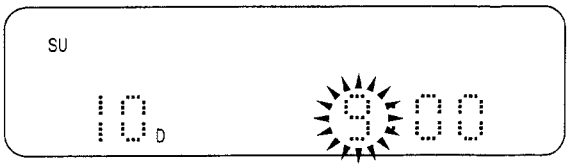
6 Press the Next Button.

7 Press the "+" or "−" Button to set the date.



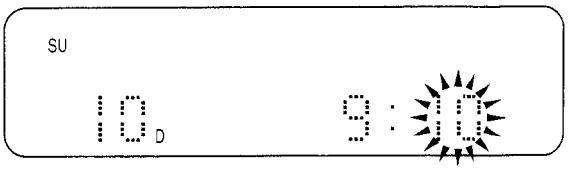
8 Press the Next Button.

9 Press the "+" or "−" Button to set the hour.

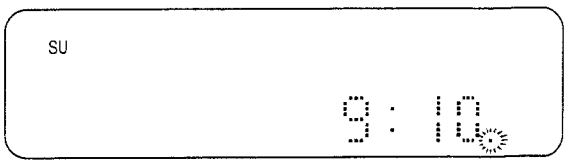


10 Press the Next Button.

11 Press the "+" or "−" Button to set the minute.



12 Press the Clock Button when the present time becomes exactly 9:10'00".



At every push of the Next Button, the flashing indication changes in the following order.

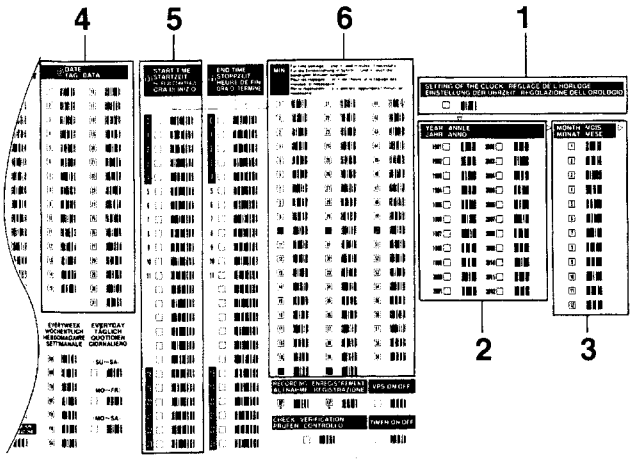
YEAR→MONTH→DATE→HOUR→MINUTE

- In case of a power failure, the timer back-up system maintains the clock operation and timer content for at least 60 minutes. However, depending on the charging time and the memory content, the back-up time may be considerably longer. However, it takes more than 60 minutes for the back-up circuit to become operational, after the VTR is connected to the mains.
- The Timer Record Function should be set to "Off", otherwise the VTR cannot be operated normally. In this case, the Timer Record Indicator "⏲" will flash to warn you.
- During date setting, the corresponding day is simultaneously set.
- The clock/timer of the VTR is programmed with the calendar up to the end of the year 2087.
  The indications 88-99 are for the years 1988–1999.
  The indications 00-87 are for the years 2000–2087.

ENGLISH

Setting the Clock to the Present Time (Cont'd)

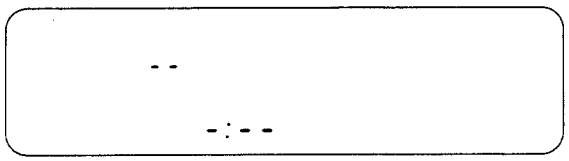
Setting the Clock to the Present Time Using the Bar Codes



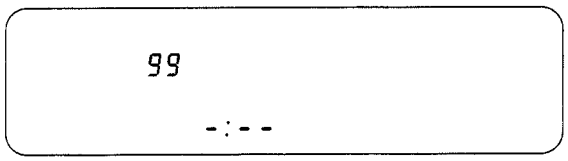
Preparation

- Press the Digital Scanner On/Off Button to turn it "ON".

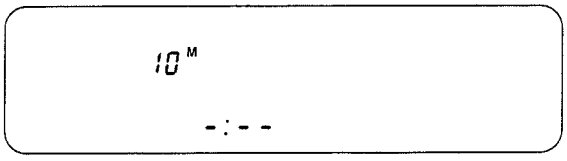
1 Trace the bar code "SETTING OF THE CLOCK".



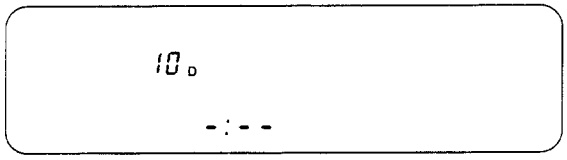
2 Trace the bar code for the year (YEAR).



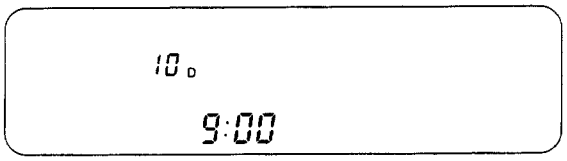
3 Trace the bar code for the month (MONTH).



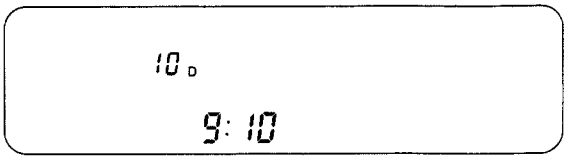
4 Trace the bar code for the day of the month (DATE).



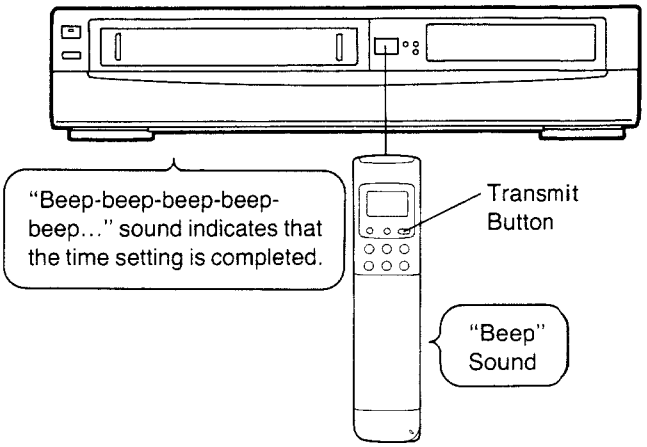
5 Trace the bar code for the hour (START TIME).



6 Trace the bar code for the minute (MIN).



7 Press the Transmit Button (Remote Controller) and then confirm that the time is displayed in the Multi-Function Display of the VTR.

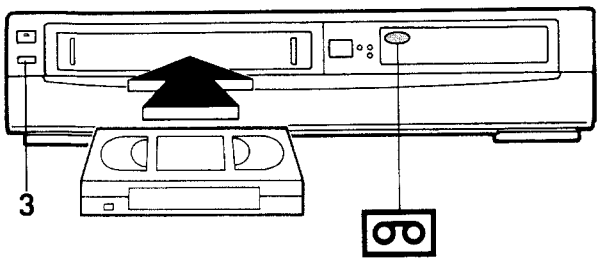


8 Press the Digital Scanner On/Off Button to turn it "OFF".

- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- If the Remote Controller is left with no operation performed for more than 4 minutes, it will automatically switch over to the power-saving standby condition and the lamp in the reading tip goes out. In this case, bar codes that have already been read (but not yet transmitted to the VTR) will be cancelled.
- The bar codes "SETTING OF THE CLOCK", "YEAR" and "MONTH" are located on page 3 of the Programming Sheet.

The Video Cassette

Inserting a Video Cassette (Auto Operation)



1 Insert the video cassette as shown. The VTR will be turned on automatically and the cassette will be automatically drawn into the VTR.

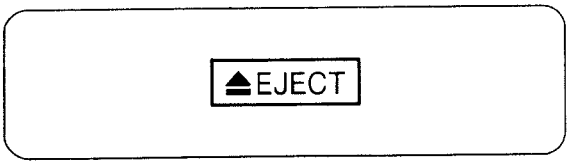
2 When a video cassette is inserted, the "📼" mark will appear.

Notes:

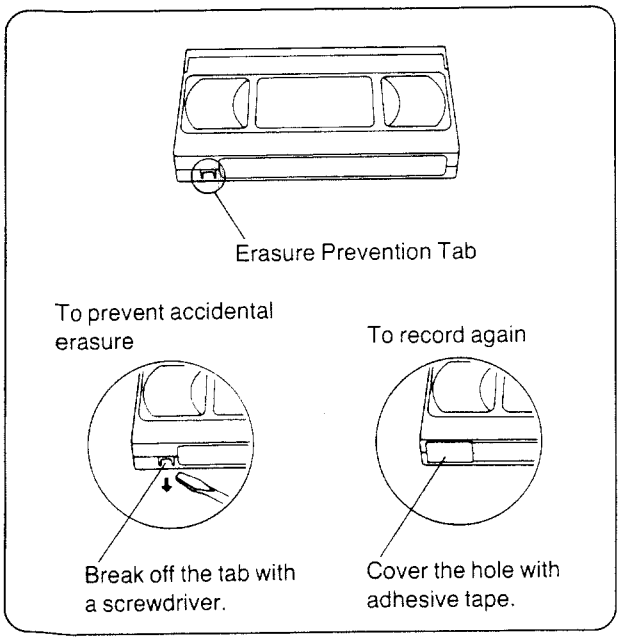
- When a video cassette with broken out erasure prevention tab (for example a pre-recorded tape) is inserted, playback will start immediately.
- Use VHS video cassette tapes only.
- We recommend the "Panasonic Hi-Fi" high grade video cassette tapes for improved picture and sound quality.

Removing a Video Cassette

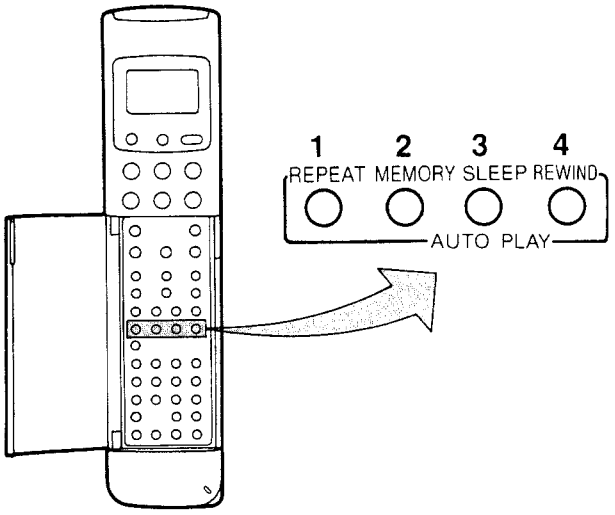
3 Press the Eject Button (⏏).



Simply press the Eject Button; the VTR turns itself on, ejects the cassette and turns itself off again.


Erasure Prevention Tab
To prevent accidental erasure
To record again
Break off the tab with a screwdriver.
Cover the hole with adhesive tape.

Auto Operation

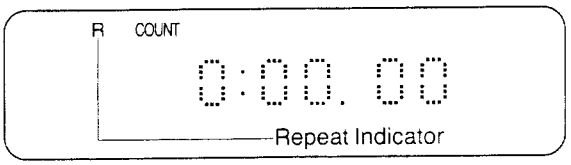


Convenient Automatic Playback Functions

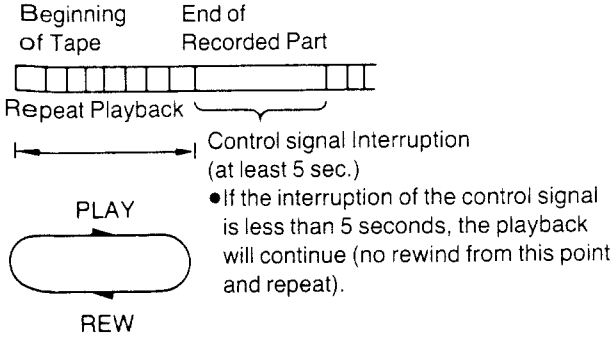
The following convenient automatic playback operations can be activated simply by pressing a single button on the Remote Controller.

1 Repeat Playback

When the Repeat Button is pressed, the "R" Indication will light up in the Multi-Function Display on the VTR and playback will start. When the tape reaches the end of its recorded portion, it will automatically be rewound to the beginning and playback will then start again. This process will be performed repeatedly.



- The playback will continue until the VTR detects the end of the video recording (no control signal for more than 5 seconds). At this point, the tape will be rewound to the beginning and the playback will be repeated.



- If the interruption of the control signal is less than 5 seconds, the playback will continue (no rewind from this point and repeat).

To stop the Repeat Playback, press the Stop Button.

Note:

- If a short tape portion is played back many times, the tape may become damaged at that part.

2 Memory Playback

When the Memory Button is pressed while the VTR is in the Stop mode, the tape is then fast-forwarded or rewound and it will be stopped at the tape counter position "0:00.00", and playback will then start from that position.

3 Sleep Playback

When the Sleep Button is pressed, playback will start. As soon as the tape reaches the end of its recorded portion, it will be automatically rewound to the beginning, and the VTR will then turn itself off.

4 Rewind Playback

When the Rewind Button is pressed, the tape will be rewound. As soon as the beginning of the tape is reached, playback will start automatically.

Auto Operation

Auto VTR On

When a cassette is inserted, the VTR turns itself on automatically.

Auto Play

When inserting a video cassette which has the erasure prevention tab removed playback will start automatically.

Auto Rewind

When the tape reaches its end during recording (except OTR and timer recording) or playback, it will automatically be rewound to the beginning.

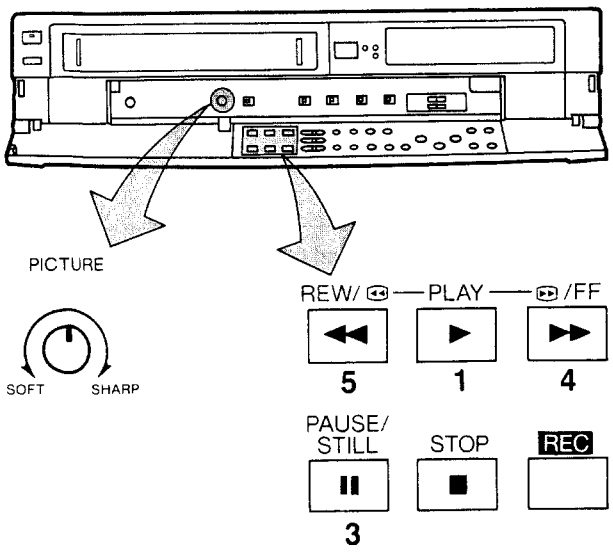
VTR-Off Eject

When the VTR is off, the inserted cassette can be ejected simply by pressing the Eject Button, and VTR will automatically turn itself off again.

Auto Head Cleaning Function

This VTR features a special function that automatically removes tape particles and dust from the video heads to ensure continuously superior picture quality. While the Head Cleaning Function is working, some mechanical noise may be heard from the VTR. However, this is not a malfunction.

Playback

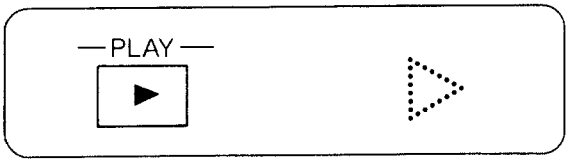


Preparation

- Make sure that the Timer Record Function is set to "Off".
- Insert a recorded video cassette.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Turn the TV set on and select the video playback channel.
- Set the Noise Filter/Edit Selector to "Off".

1 Normal Playback

Press the Play Button (▶).



- Control the picture as you like with the Picture Sharpness Control (sharp or soft contours).

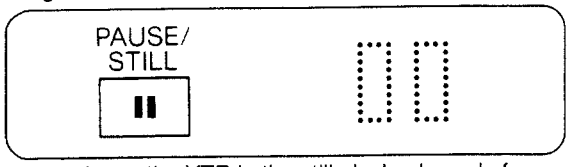
2 To Finish Playback

Press the Stop Button (■) to stop the playback.

- To be able to watch TV programmes, set the VTR/TV Selector Switch to "TV". The "VTR" Indicator will then go out.

3 Super Still Playback

When the VTR is in the playback mode, press the Pause/Still Button (❚❚) to view a still-picture. To continue the normal playback, press the Play Button (▶) or this button again.

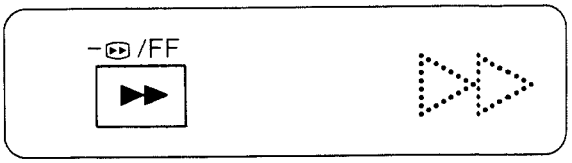


- If you leave the VTR in the still playback mode for more than 5 minutes, the VTR will automatically switch over to the Stop mode to protect the tape and the video heads.

4 Cue Playback

For short Cue playback (during normal playback), keep the Fast Forward ▶▶/Cue ►► Button pressed for as long you want the tape to be played back at high speed in forward direction.

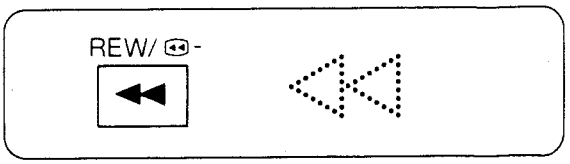
For longer Cue playback (during normal playback), quickly press the Fast Forward ▶▶/Cue ►► Button to start the Cue playback. To change back to normal playback, press the Play Button (▶).



5 Review Playback

For short Review playback (during normal playback), keep the Rewind ◀◀/Review ◄◄ Button pressed for as long you want the tape to be played back at high speed in reverse direction.

For longer Review playback (during normal playback), quickly press the Rewind ◀◀/Review ◄◄ Button to start the Review playback. To change back to normal playback, press the Play Button (▶).



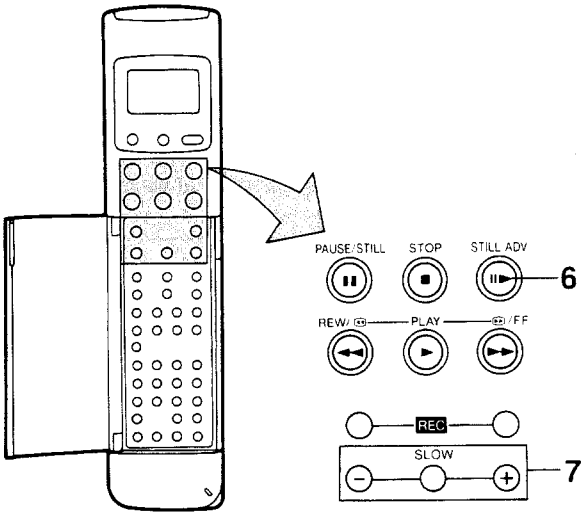
Note:

When Cue or Review playback continues for more than 10 minutes, the VTR will automatically switch back to the normal playback mode.

ENGLISH

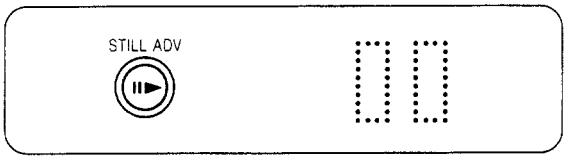
Playback (Cont'd)

Using the Remote Controller



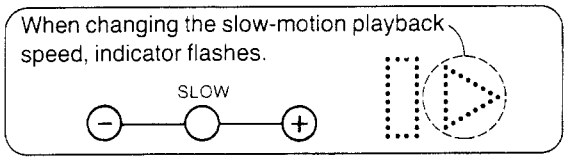
6 Super Still Advance Playback

Press the Still Advance Button (⏭) while the VTR is in the still playback mode. Each time you press this button, the still-picture will advance one single field.



7 Super Fine Slow Playback

During normal playback, the Slow-motion playback can be activated by pressing the Slow Button. The slow-motion playback speed can then be varied by using the Slow "+" or "−" Button.



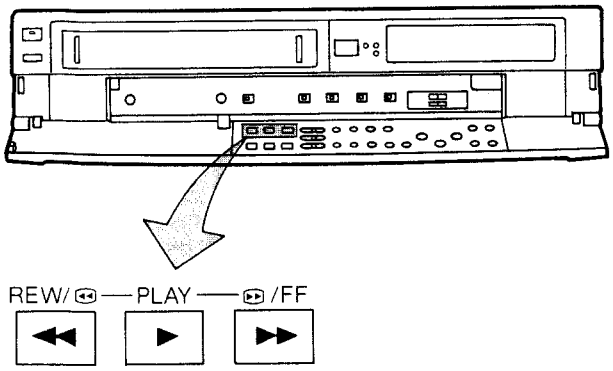
- Press the Play Button (▶) to continue the normal playback.
- If the Slow playback operation continues for more than 5 minutes, the VTR automatically switches over to the stop mode.
- While playing back a tape in the Super Still or Super Fine Slow playback mode on a TV set equipped with an automatic vertical hold control, the picture may shake vertically. In this case, set the TV set's vertical hold (Auto/Manual) selector to the "Manual" position, and adjust the vertical hold control.

Slow Tracking Control

- When noise bars appear during Super Still, Super Still Advance or Super Fine Slow playback, switch over to slow playback and adjust with the Tracking "+" or "−" Button to reduce the noise bars.
- It may not be possible to eliminate the noise bars completely.

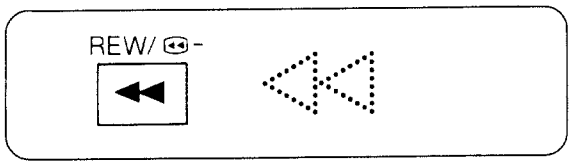
- The sound will be played back only during normal playback.
- When the picture rolls vertically in the Cue or Review mode, adjust the vertical hold control on the TV set.
- Immediately after starting Cue or Review playback, the picture may be distorted. Also, when these modes are cancelled, some momentary picture distortion may occur. However, this is not due to any malfunction.
- Noise which takes the form of horizontal bars appears on the TV in the Cue and Review playback modes. This is not an indication of a malfunction.
- The top of the picture may become distorted in the Cue, Review or Still mode. This is not an indication of a malfunction.
- In "LP" mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.
  3. When playing back a tape on which SECAM (OST) signals have been recorded, the colour may be unstable, or a Black-and-White picture may appear.

Playback (Cont'd)

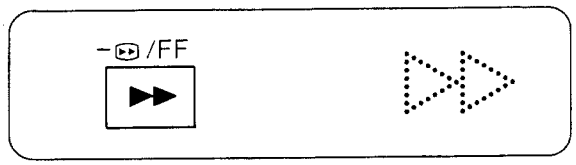


Rewind and Fast Forward

Press the Rewind ◀◀/Review ◀◀ Button to rewind the tape.

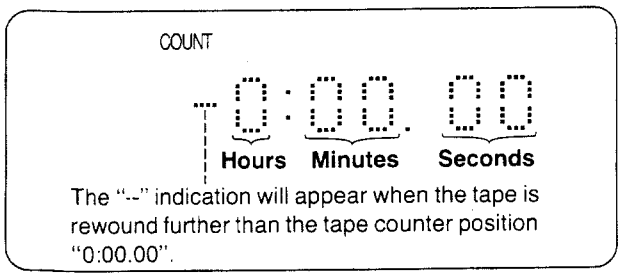


Press the Fast Forward ▶▶/Cue ▶▶ Button to wind the tape forward rapidly.



Lap Time Counter

It shows the elapsed recording or playback time.



The "-" indication will appear when the tape is rewound further than the tape counter position "0:00.00".

- If the figures on the Tape Counter do not change during Fast Forward, Rewind or any of the Playback functions, this means that nothing is recorded on that tape section.
- The Tape Counter is automatically reset to "0:00.00" when the video cassette is inserted.
- During playback of NTSC recordings, the Tape Counter does not function correctly.

NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.

- Set the NTSC 4.43 Switch to the "OFF" position. When a tape is played back after setting the Switch to "ON", the colours will be reproduced correctly only if an 4.43 MHz NTSC system TV is used.
- Depending on the TV set used, the picture may shrink vertically and black bars may appear both at the top and bottom of the screen.This is not an indication of a malfunction.
- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control. However, TV sets not equipped with a V-HOLD control cannot correct this condition.
- When playing back a tape recorded in the NTSC system SLP mode, the "LP" Indication will light up in the Multi-Function Display.
- The special playback functions (except normal playback) cannot be used for NTSC playback. This is not an indication of a malfunction.
- Recording in the NTSC 3.58 system is not possible with this VTR. Insert editing and audio dubbing also would not function correctly, so please do not operate these functions.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

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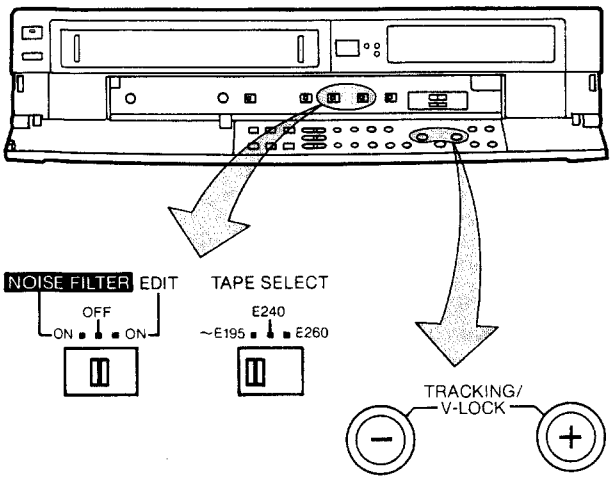
Playback (Cont'd)



Digital Tracking

When playback is started after inserting a cassette, and the VTR is turned on, the Digital Tracking function will be activated automatically.

- When the tape speed (SP/LP) is changed, the Digital Tracking function will be activated. However, when operating any function other than playback, insert editing and audio dubbing, this function will not work.
- During playback, the Digital Tracking function will be activated whenever the playback changes over from an unrecorded part to a recorded part, provided the recorded part is longer than 4 seconds.

- When the picture is distorted by noise bars, press the Tracking "+" or "−" Button to select manual tracking and adjust with these two buttons. To change back to Digital Tracking, press the Tracking "+" and "−" Buttons simultaneously.

Vertical Lock Adjustment

If vertical jitter occurs, adjust with the V-Lock "+" or "−" Button during Still playback.

- When the AC Mains Lead is unplugged or a power failure occurs, perform the vertical lock adjustment again.

Noise Filter/Edit Selector

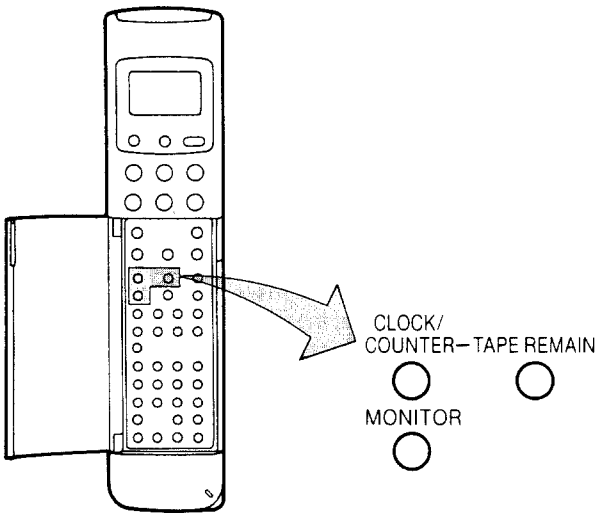
EDIT ON: For editing operations such as dubbing.
OFF: For ordinary use of the VTR.
NOISE FILTER ON: For playback of tapes with inferior picture quality caused, for example, by repeated dubbing.

- When the Noise Filter/Edit Selector is set to "EDIT ON", the picture sharpness cannot be adjusted with the Picture Sharpness Control.

Tape Select Switch

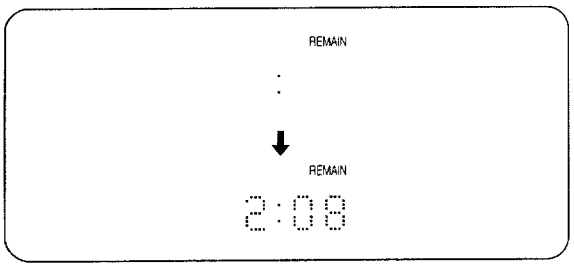
To obtain a correct Remaining Tape Time indication when using an NV-E240 video cassette tape, this switch must be set to the "E240" position.
When using NV-E30, 60, 90, 120, 180 or 195 video cassette tapes, set this switch to the "~E195" position.
When using an NV-E260 video cassete tape, set this switch to the "E260" position.
If cassettes with other tape lengths than the above are used, the Remaining Tape Time indication will not be precise.

Playback (Cont'd)



Indication of the Remaining Tape Time

When the Tape Remain Button on the Remote Controller is pressed during playback or recording mode, the approximate remaining tape time will be displayed in hours and minutes.



- The Remaining Tape Time Indication will remain displayed even after the tape is ejected. However, when next inserting a cassette, this indication will be cancelled.
- When using a VHS-C videocassette in this VTR, the remaining tape time indication may not be correct or this indication may not appear at all.
- To return to the Tape Counter indication, press the Tape Remain Button again.

Clock/Counter Selector

By pressing this button when the VTR On/Off Switch is set to "On", it is possible to change over the display mode of the Clock/Counter Display in the Multi-Function Display from "Clock" to "Counter" Display and vice versa.

- Even if the selector button is set for "Counter" the display will automatically changes over to "Clock" Display in all the following cases; When you set the VTR On/Off Switch to "Off", adjust the clock to present time, programme a timer recording, check a timer recording programme or programme and perform an OTR.
- When the Clock/Counter Display shows the time, the counter cannot be reset.

Monitoring Function

When the Monitor Button is kept pressed during Playback or Still playback, the broadcast picture of the selected programme position (channel) or input signal through Audio/Video input socket will be displayed. When this button is released, the picture will change back to the playback picture of the tape.

- When the VTR is connected to the TV set via Euro AV cable, this function does not work.

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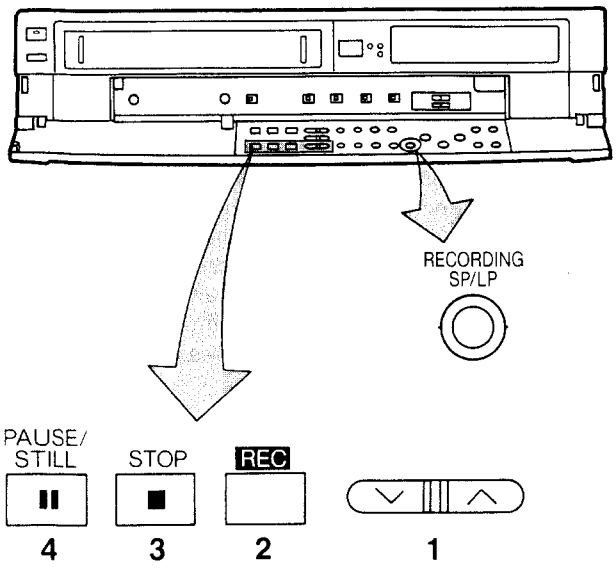
Recording from a TV Broadcast Signal



Preparation

- Make sure that the Timer Record Function is set to "Off".
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Set the Tape Speed Selector to "SP" or "LP".
- Press the VTR/TV Selector so that the "VTR" Indicator in the Multi-Function Display lights up.
- Adjust the audio recording level as described on page 28.

Tape Speed Selector (SP/LP)

For recording, either of two tape speeds can be selected. During playback, the VTR will automatically select the correct speed.

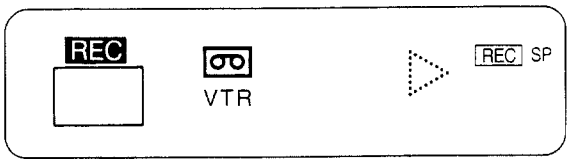
- SP Mode: For better picture quality.
- LP Mode: For longer recording time.

It is not recommended to change from the SP to the LP mode or vice versa in the middle of recording. Even if the switching is done while the VTR is in the pause mode, picture distortion will occur at the switching point during playback.

Note:
The picture quality in the LP mode is not as good as that in the SP mode.

1 Select on the VTR, the programme position (channel) to be recorded. In order to confirm proper reception, turn on the TV set and select the video playback channel.

2 Press the Record Button.



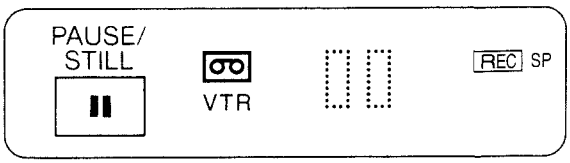
- When a video cassette with broken out tab is inserted, the "⊙⊙" indication will flash, and an alarm sound will be produced to indicate that recording is not possible.
- During recording, the programme position (channel) on the VTR cannot be changed.
- To start a recording with the Remote Controller, press the two Record Buttons on the Remote Controller simultaneously.
- When a recording (including OTR and Timer Recording) is started, the tape is played back for a short moment before the actual recording starts, in order to achieve smooth continuation from the previous to the new recording. Therefore, the new recording starts about 1.5 seconds late.

To Finish the Recording

3 Press the Stop Button (■).

If You Wish to Avoid Recording Unwanted Material

4 Press the Pause/Still Button (❚❚) to stop the tape temporarily.



- Press the Pause/Still Button (❚❚) again to continue the recording.
- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will automatically switch over to the stop mode to protect the tape and the video heads.

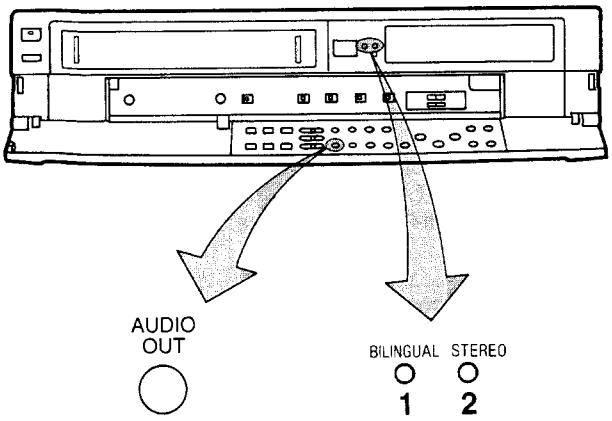
Recording One TV Programme While Watching Another

1 Record (following steps 1 and 2).

2 Press the VTR/TV Selector so that the "VTR" Indicator in the Multi-Function Display goes out.

3 Select the desired programme position (channel) on your TV set.

Hi-Fi Audio System



Recording of Stereo and Bilingual Sound

There is no special operation required; it is the same as for normal TV programme recording described on page 26. Recording of stereo and bilingual programmes is controlled automatically. It is not necessary to preselect any audio tracks.

1 When a bilingual programme is received, the "Bilingual" indicator lights up.

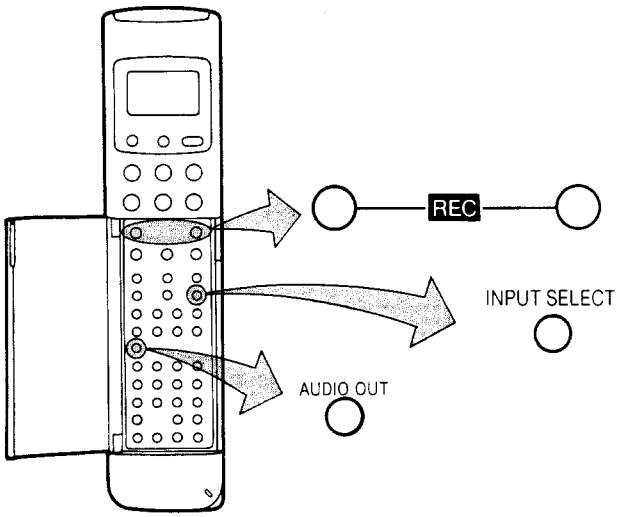
2 When a stereo programme is received, the "Stereo" indicator lights up.

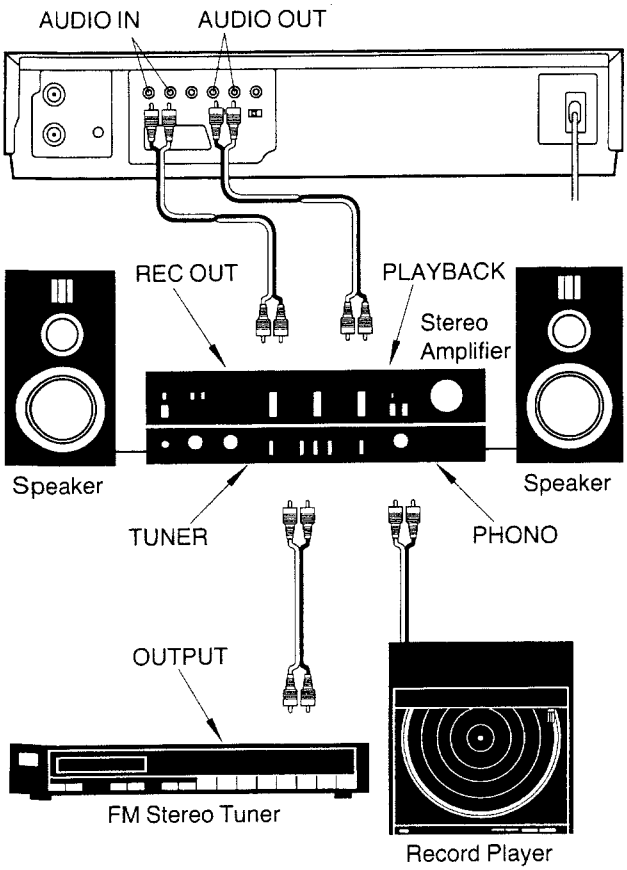
Playback (or Monitoring during Recording)

Press the Audio Output Mode Selector to select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.

L ::::::

Using the VTR as a Hi-Fi Audio Recorder





Preparation

- Connect the VTR to the Hi-Fi audio system. (Example of a connection diagram is shown).
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Switch on the Hi-Fi audio system and select an audio source.

Hi-Fi Audio Recording

Note: Selection of an audio track is not necessary for recording.

1 Press the Input Signal Selector on the Remote Controller to select the "A2" programme position (or select with the Channel Up or Down Button on the VTR).

2 To start the recording, press the Record Buttons.

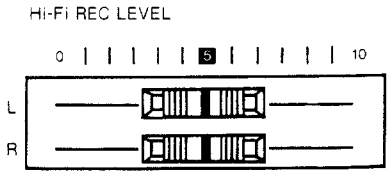
3 To achieve smooth transitions between adjoining recordings, see notes on page 44.

Hi-Fi Audio Playback

- Repeatedly press the Audio Output Mode Selector Button so that the "Left" and "Right" Audio Output Mode Indicators light up (for playback of both mono and stereo recordings).
- To start the playback, press the Play Button (▶).

Adjustment of the Hi-Fi Audio Recording Level

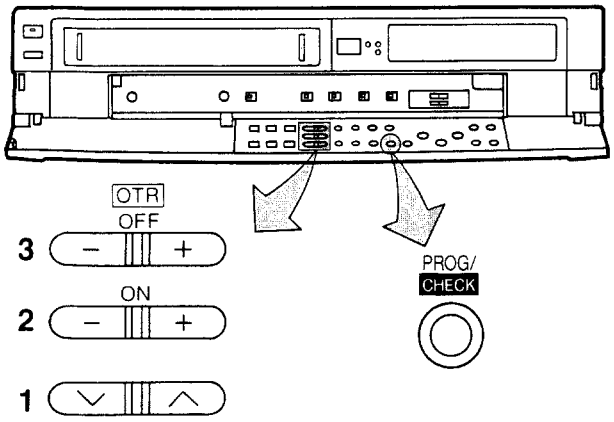
Setting the Hi-Fi Rec Level Controls to the centre "5" position (click stop) assures satisfactory audio recording results in most cases. When using the VTR as a Hi-Fi audio recorder or when producing your own video tapes, it may be desirable to adjust the Hi-Fi Rec Level Controls to some other position.
(It is recommended to adjust so that peaks in the audio level reach about +4 dB.)



- The sound to be recorded on the "normal" audio track will be adjusted automatically.

Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start or with start within 24 hours by precisely setting the starting time and ending time to the desired minute, and the VTR will automatically turn itself off when the recording ends.



Preparation

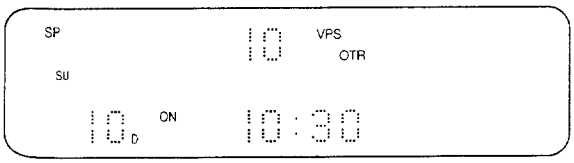
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Make sure that the clock shows the present time correctly.
- Set the Tape Speed Selector to "SP" or "LP".
- Adjust the audio recording level as described on page 28.

It is possible to programme an OTR recording for a TV programme which will start immediately or within the next 24 hours.
(For example, OTR recording of a TV programme broadcast from 10:30 to 11:00.)

1 Select the programme position (channel) to be recorded.

When selecting a TV programme that is broadcast with VPS signal, the VPS Indicator will light up.

2 Press the OTR On (+) or (−) Button to set the OTR starting time to 10:30.

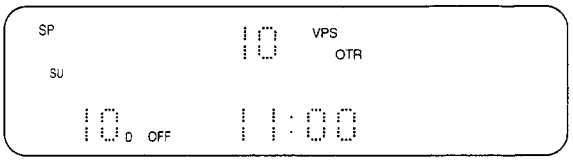


- The "OTR" indicator will be displayed.
- When a video cassette with broken out tab is inserted, the "⊡" indication will flash, and an alarm sound will be produced to indicate that recording is not possible.

The VPS indication appears automatically to indicate VPS-controlled OTR recording.

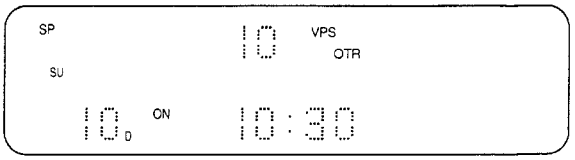
If the VPS function is not desired, press the AFC/VPS Button. The VPS indication will disappear.

3 Press the OTR Off (+) or (−) Button to set the OTR ending time to 11:00

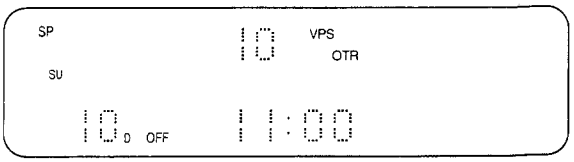


- When quickly and repeatedly pressing the OTR On (+) or (−) Button or the OTR Off (+) or (−) Button, the corresponding time indication changes in 1-minute steps. When it is kept pressed, the indication changes in 10-minute steps.
- After setting the OTR starting time in step 2, the OTR Off (+) or (−) Button must be pressed within 8 seconds to select the OTR ending time, otherwise the selected starting time will be cancelled.

After 4 seconds, the display will automatically change back to the starting time indication.



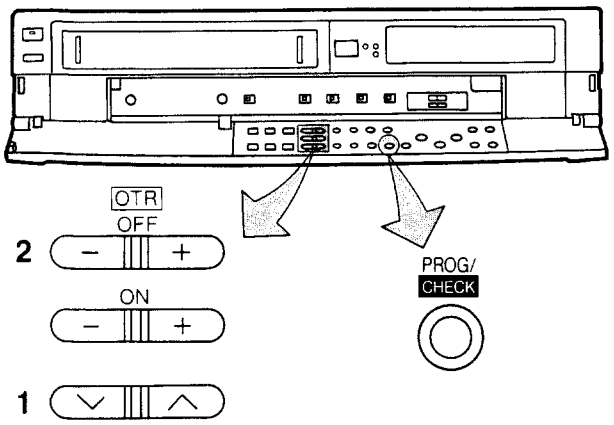
To confirm the OTR ending time, press the Check/ Programme Button once. When this button is pressed twice, the display will change to the clock indication mode.



- The VTR will automatically switch off, when the OTR is completed. To turn the VTR on again, press the VTR On/ Off Switch.
- In case of VPS-controlled recordings, the tape will be stopped at the end of the recording, however, the VTR will not be switched off completely.

ENGLISH

Super OTR Function (One-Touch Timer Recording) (Cont'd)

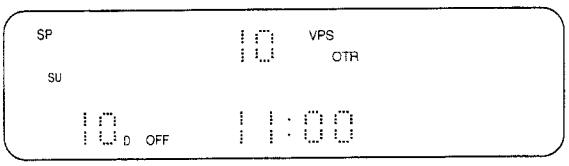


OTR Function with Immediate Start

For example; OTR recording of a TV programme broadcast to 11:00.

1 Select the programme position (channel) to be recorded.

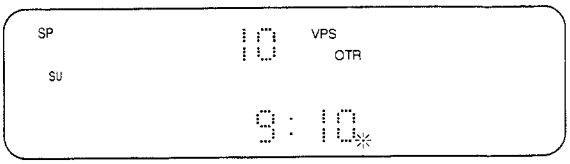
2 Press the OTR Off "+"or "−" Button to set the OTR ending time to 11:00.



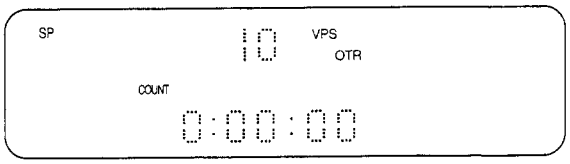
- The "OTR" indicator will be displayed.
- If the TV station of the selected programme position (channel) is broadcasting with VPS signal, the VPS Indicator will be lit.
- If the VPS function is not desired, press the AFC/VPS Button. The VPS indication will disappear.

- When a video cassette with broken out tab is inserted, the "CC" indication will flash, and an alarm sound will be produced to indicate that recording is not possible.
- When quickly and repeatedly pressing the OTR Off "+" or "−" Button, the corresponding time indication changes in 1-minute steps. When it is kept pressed, the indication changes in 10-minute steps.
- The VTR will automatically switch off, when the OTR is completed. To turn the VTR on again, press the VTR On/Off Switch.
- In case of VPS-controlled recordings, the tape will be stopped at the end of the recording, however, the VTR will not be switched off completely.

When the Programme/Check Button is pressed once, the present time will be displayed.



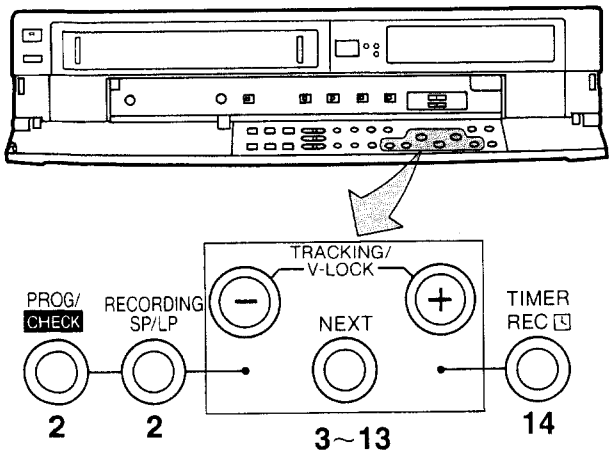
When the Clock/Counter Selector Button (Remote Controller) is pressed during OTR recording, the display will change over to the counter mode.



- When the tape reaches its end during an OTR the VTR will turn itself off.
- Make sure that the OTR Function (One-Touch Timer Recording) does not overlap a programmed timer recording. An OTR always takes precedence over a timer recording.
- It is possible to change the OTR starting time or the ending time before the recording starts.
- It is possible to perform any VTR operation (except timer recording) until the recording starts.
- It is possible to change the OTR ending time even during the recording.
- To interrupt an OTR, press the VTR On/Off Switch to turn the VTR off.
- The VPS Indication lights up during programming and during recording, however, it has no influence if the TV programme is broadcast without VPS signal.

Timer Recording

The programming of timer recordings is possible both on the VTR itself and via the Remote Control Unit.
Programming of as many as 8 timer recording is possible up to one month in advance.

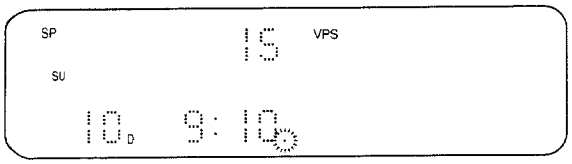


Preparation

- Make sure that the clock shows the present time correctly.
- Make sure that the Timer Record Function is set to "Off".
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Adjust the audio recording level as described on page 28.

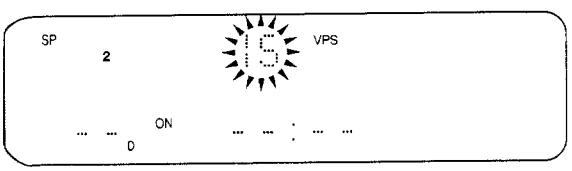
For Example:
Programming a timer recording for a TV programme that will be broadcast on Wednesday, October 27, from 10:30 to 11:45, on programme position (channel) 12, on timer programme number 2. (Present date=October 10, 1999)

1 The VPS indication shows that the selected programme position (channel) is received with VPS signal.



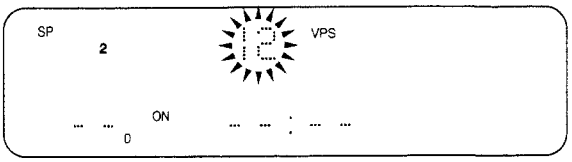
2 Press the Programme/Check Button to select the next unoccupied timer programme number.

- Press the Tape Speed Selector Button until the Indicator of the desired tape speed ("SP" or "LP") is lit in the Multi-Function Display.



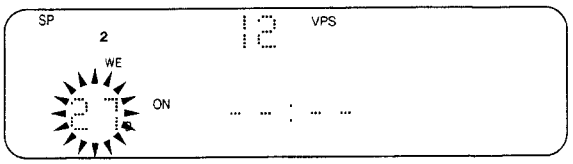
The VPS indication appears automatically to indicate VPS-controlled timer recording. If the VPS function is not desired, press the AFC/VPS Button. The VPS indication will disappear.

3 Press the "+" or "−" Button to select the programme position (channel) on which the TV programme will be broadcast.



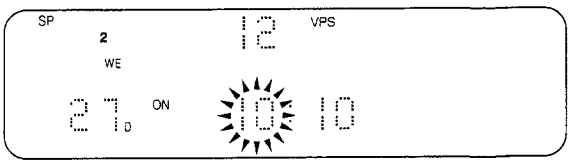
4 Press the Next Button.

5 Press the "+" or "−" Button to set the date.



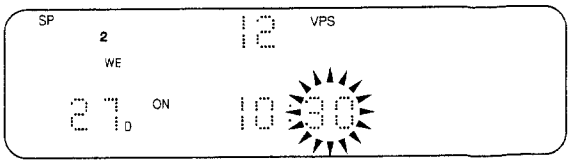
6 Press the Next Button.

7 Press the "+" or "−" Button to select the hour of the starting time of the TV programme.



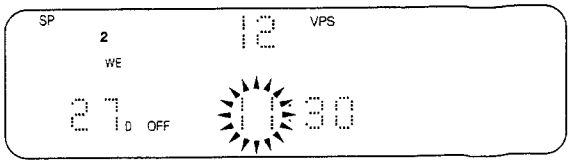
8 Press the Next Button.

9 Press the "+" or "−" Button to select the minute of the starting time of the TV programme.



10 Press the Next Button.

11 Press the "+" or "−" Button to select the hour of the end time of the TV programme.



12 Press the Next Button.

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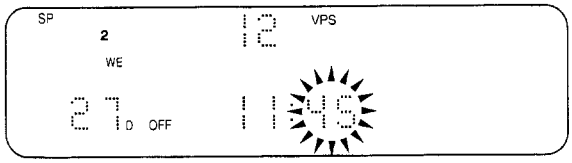
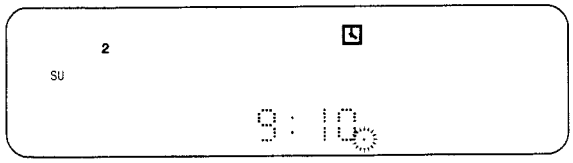
Timer Recording (Cont'd)

13 Press the "+" or "−" Button to select the minute of the end time of the TV programme.



14 Press the Timer Record Button.



- The tape speed (SP/LP) can be selected in any of the steps 2 to 13.
- The AFC/VPS Button can be pressed in any of the operation steps 2–13 in order to cancel the VPS function.

VPS (Video Programme System)

The Video Programme System (VPS) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news are inserted, the recording will also be interrupted automatically and resumed when the programme continues.

- If the actual broadcasting times of timer recordings overlap (regardless of whether they are VPS-controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the VPS signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular VPS signal, the timer recording will be performed in the normal mode (without VPS) even if it was programmed for VPS.

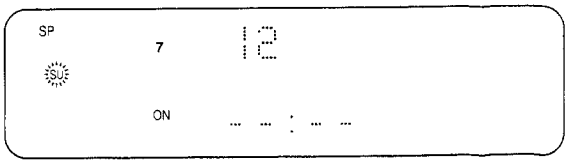
For Everyweek Recording

For Example:
Programming a timer recording for a TV programme that is broadcast every week on Sunday, from 10:30 to 11:45.

Programming for everyweek recording can be made on any of the timer programme numbers 1–8.

Perform the operation steps 1 to 4.

5 Press the "−" Button repeatedly until the "SU" Indicator (=Sunday) is lit.



Perform the operation steps 6 to 14.

Timer Recording (Cont'd)

For Everyday Recording

For Everyday Recording, you have the choice between 3 different modes: Monday through Friday, Monday through Saturday, and Sunday through Saturday.

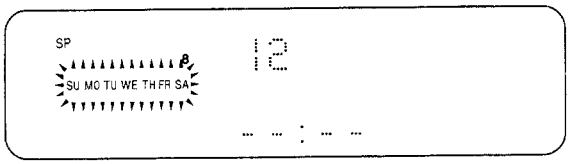
MO TU WE TH FR ——— *1*
MO TU WE TH FR SA ——— *2*
SU MO TU WE TH FR SA ——— *3*

For example:
Programme time for timer recording every day from 10:30 to 11:45 on timer programme number 8.

Programming for everyday recording can be made on any of the timer programme numbers 1–8.

Perform the operation steps 1 to 4.

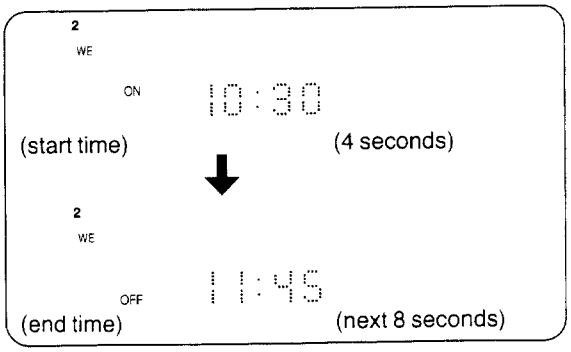
5 Press the "–" Button until the desired type of Everyday Recording (*1, 2, 3*) is displayed.



Perform the operation steps 6 to 14.

To Confirm the Programme of a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Record Function is set to "On".
Select the programme number to be checked, by repeatedly pressing the Programme/Check Button.
The preset channel and start and ending times of the timer recording will be indicated for about 12 seconds.



To Cancel a Timer Recording

Make sure that:
the VTR is turned on,
the Timer Record Function is set to "Off".

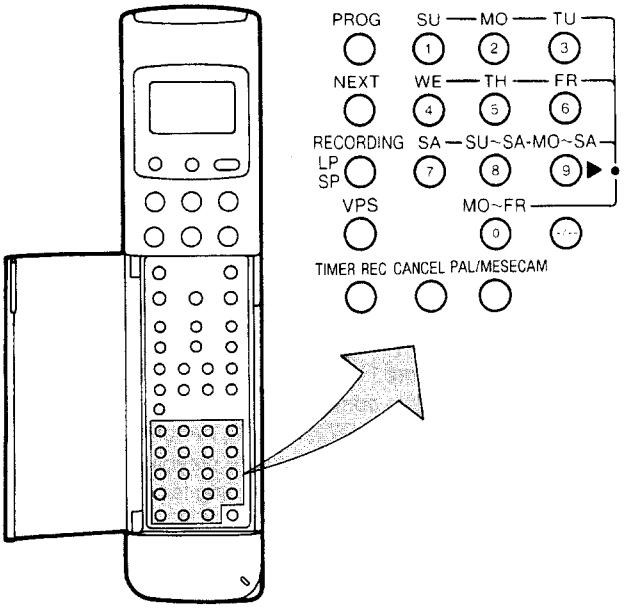
1 Press the Programme/Check Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

2 Press the Cancel Button.

- During recording, the programme position (channel) on the VTR cannot be changed.
- When you want to watch TV after setting a timer recording, select the desired channel on the TV set.
- To cancel a timer recording during recording, set the Timer Record Function to "Off".
- It is impossible to confirm programmes of timer recordings while an OTR is being performed.
- To turn the VTR on and use it for playback or recording before the timer recording is performed, set the Timer Record Function to "Off".
- When the Timer Record Function is set to "On" with no video cassette or a video cassette with broken tab inserted, the "📼" and "⏲" indications will flash. The "⏲" indication will also flash, when programming is not completely finished. While it is flashing, an alarm sound will be produced to indicate that recording is not possible.
- If a timer recording is not performed to the end (not enough tape or cancelled by the user), the programmed timer recording data will be cancelled from the memory at 4 a.m. two days later. However, if the Timer Record Function is activated or an OTR recording is being performed at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

Timer Recording (Cont'd)

TIMER RECORDING BY USING THE REMOTE CONTROLLER



How to select the programme position (channel)
To select a figure between 1 and 9, press the numeric button corresponding to the number.
To select a 2-digit figure, first press the "-/--" button and then press the two corresponding numeric buttons one after the other within 5 seconds.

How to set the Date and the Starting & Ending Times for Timer Recording
To select a figure between 0 and 9, first press the numeric button "0" and then press the numeric button corresponding to the number.
To select a 2-digit figure, press the two corresponding numeric buttons one after the other.

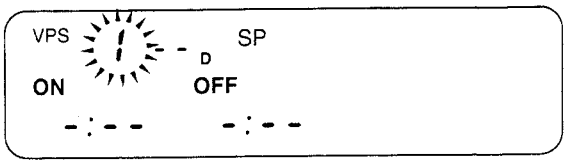
2	0 ➡	2
15	1 ➡	5
30	3 ➡	0

- The second button must be pressed within 5 seconds after the first button.
- Before pressing the Next Button, confirm that the figure that you have input is indicated in the proper decimal position in the Display.
- After inputting the minute, confirm that the minutes are indicated as a 2-digit figure, before pressing the Next Button.
- If the Next Button is pressed while a figure is only indicated in the tens digit, it will be treated as a programming error and will not be accepted.
- However, when no further figure is input within 5 seconds after inputting a single digit, this figure will move to the units digit.

- When pressing the following buttons first, they will immediately be input in the units digit.
  For the date: "4"~"8" Buttons
  For the hour: "3"~"9" Buttons
  For the minute: "6"~"9" Buttons

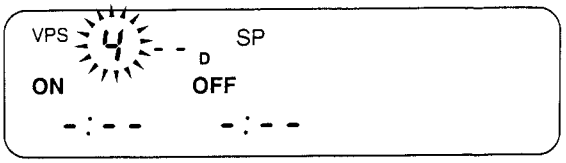
Example:
Programming a timer recording for a TV programme that will be broadcast on the 3rd of the month, from 7:02 to 7:30, on programme position (channel) 4.

1 Press the Programme Button.
- Press the Tape Speed Selector Button until the Indicator of the desired tape speed ("SP" or "LP") is lit in the Display.



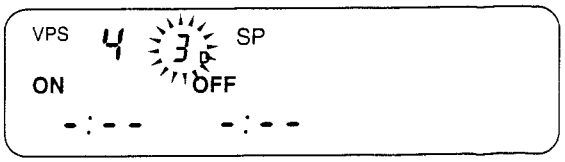
The VPS indication appears automatically to indicate VPS-controlled timer recording. If the VPS function is not desired, press the VPS Button. The VPS indication will disappear.

2 Press the Number Buttons to select the programme position (channel) on which the TV programme will be broadcast.



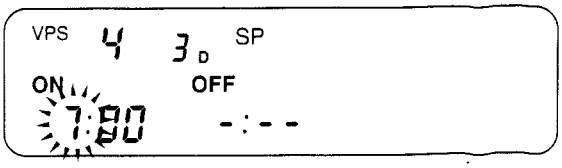
3 Press the Next Button.

4 Press the Number Buttons to set the date.



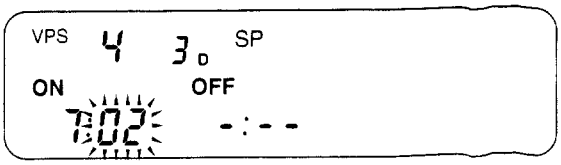
5 Press the Next Button.

6 Press the Number Buttons to select the hour of the starting time of the TV programme.



7 Press the Next Button.

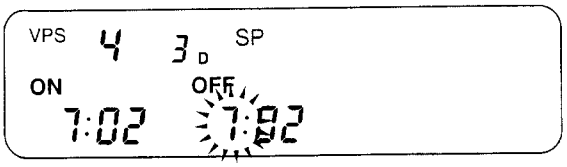
8 Press the Number Buttons to select the minute of the starting time of the TV programme.



Timer Recording (Cont'd)

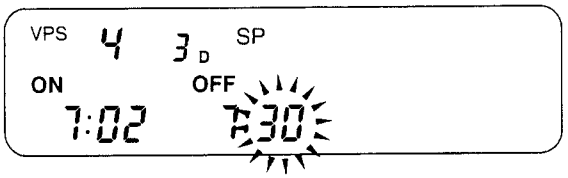
9 Press the Next Button.

10 Press the Number Buttons to select the hour of the end time of the TV programme.



11 Press the Next Button.

12 Press the Number Buttons to select the minute of the end time of the TV programme.

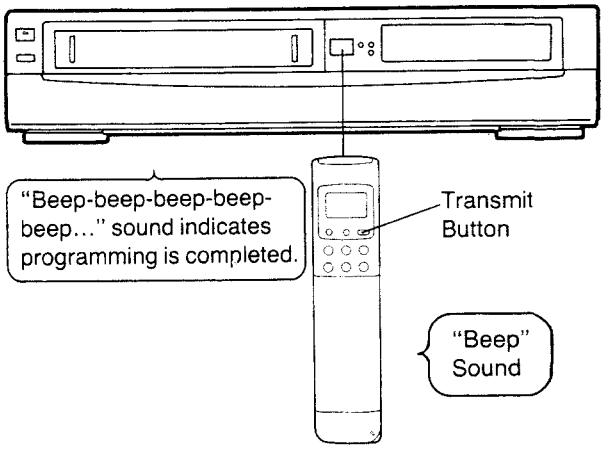


13 Press the Transmit Button.

- The tape speed (SP/LP) can be selected in any of the steps 1 to 12.
- The VPS Button can be pressed in any of the operation steps 1–12 in order to cancel the VPS function.
- When transmitting the programmed data to the VTR without selecting the desired tape speed (SP or LP is not lit in the Display), the tape speed indicated in the Multi Function Display on the VTR will be programmed for the timer recording.
- To immediately programme one more timer recording, press the Programme Button two times after transmitting the programming data of the first timer recording to the VTR. Then programme the second timer recording.
- If no operation is performed on the Remote Controller for more than 25 seconds, it will automatically switch over to the power-saving standby condition and the indications on the Display will disappear. In this case, the data which have not yet been transmitted to the VTR will be cancelled.

Transmit the Programming Data

Keep pressing the Transmit Button and confirm that the programmed data on the Multi-Function Display of the VTR are as desired.
After releasing the button, the data will continue to be displayed for about 12 seconds.



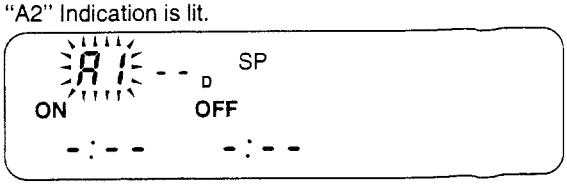
- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- The transmission is possible when the VTR is turned on but is not in any of the recording or playback operation modes. It is also possible when the VTR is in the timer recording standby mode (⏲ indication is lit).
- If all programme numbers are occupied, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you that the programming cannot be made.
- When the Transmit Button is pressed, the VTR will automatically be put into the timer recording standby condition and the VTR will be turned off.
- To operate the VTR before the timer recording will be performed, press the Timer Record Button to suspend the timer recording standby condition. After using the VTR, be sure to press the Timer Record Button again, otherwise the timer recording will not be made.

Timer Recording from an External Source

For Example:
Programming a timer recording from some other AV equipment connected to the Audio/Video Input Socket or the Euro AV socket on the 3rd of the month, from 7:02 to 7:30.

1 Press the Programme Button.

2 Press the Input Signal Selector so that the "A1" or "A2" Indication is lit.



A1: To select the signals which are input via the Euro AV socket.
A2: To select the signals which are input via the Audio/Video Input Socket.

Perform the operation steps 3 to 13 on pages 34 and 35.

ENGLISH

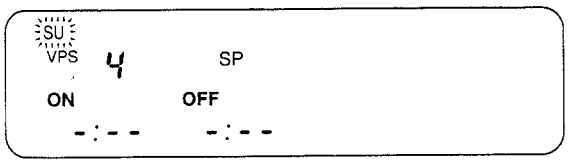
Timer Recording (Cont'd)

For Everyweek Recording

For Example:
Programming a timer recording for a TV programme that is broadcast every week on Sunday, from 7:02 to 7:30.

Perform the operation steps 1 to 3 on page 34.

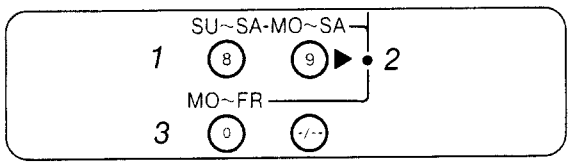
4 Press the "9" Button and then the "1" Button within 5 seconds. The "SU" Indication (=Sunday) is lit.



Perform the operation steps 5 to 13.

For Everyday Recording

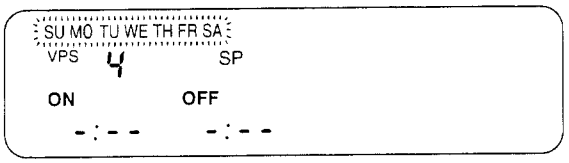
For Everyday Recording, you have the choice between 3 different modes: Sunday through Saturday*(1)*, Monday through Saturday*(2)*, and Monday through Friday*(3)*.



For Example:
Programming a timer recording for a TV programme that is broadcast everyday from 7:02 to 7:30.

Perform the operation steps 1 to 3 on page 34.

4 Press the "9" Button and then the "8", "9" or "0" Button within 5 seconds, according to the desired type of Everyday Recording *(1,2,3)*.



Perform the operation steps 5 to 13.

How to set Everyweek and Everyday Recording
First press the "9" Button and then press the desired Number Button according to the desired type of Everyweek or Everyday Recording.

Everyweek Recording

Sunday	MO~SA (9)▶ →	SU (1)
Monday	MO~SA (9)▶ →	MO (2)
Tuesday	MO~SA (9)▶ →	TU (3)
Wednesday	MO~SA (9)▶ →	WE (4)
Thursday	MO~SA (9)▶ →	TH (5)
Friday	MO~SA (9)▶ →	FR (6)
Saturday	MO~SA (9)▶ →	SA (7)

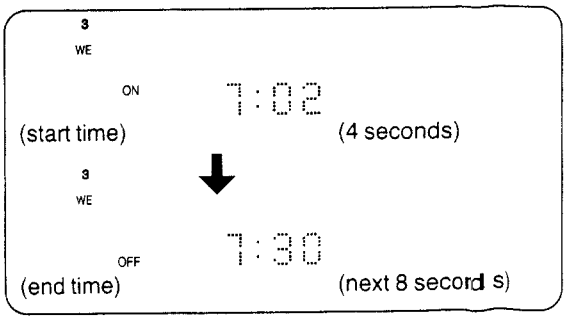
Everyday Recording

Sunday through Saturday	MO~SA (9)▶ →	SU~SA (8)
Monday through Saturday	MO~SA (9)▶ →	MO~SA (9)
Monday through Friday	MO~SA (9)▶ →	MO~FR (0)

The second button must be pressed within 5 seconds after the first button.

To Confirm the Programme of a Timer Recording

Make sure that the VTR is turned on.
Make sure that the Timer Record Function is set to "On".
Make sure that no figures are indicated in the Display of the Remote Controller.
Select the programme number to be checked, by repeatedly pressing the Transmit Button.
The preset channel and starting and ending times of the timer recording will be indicated for about 12 seconds.



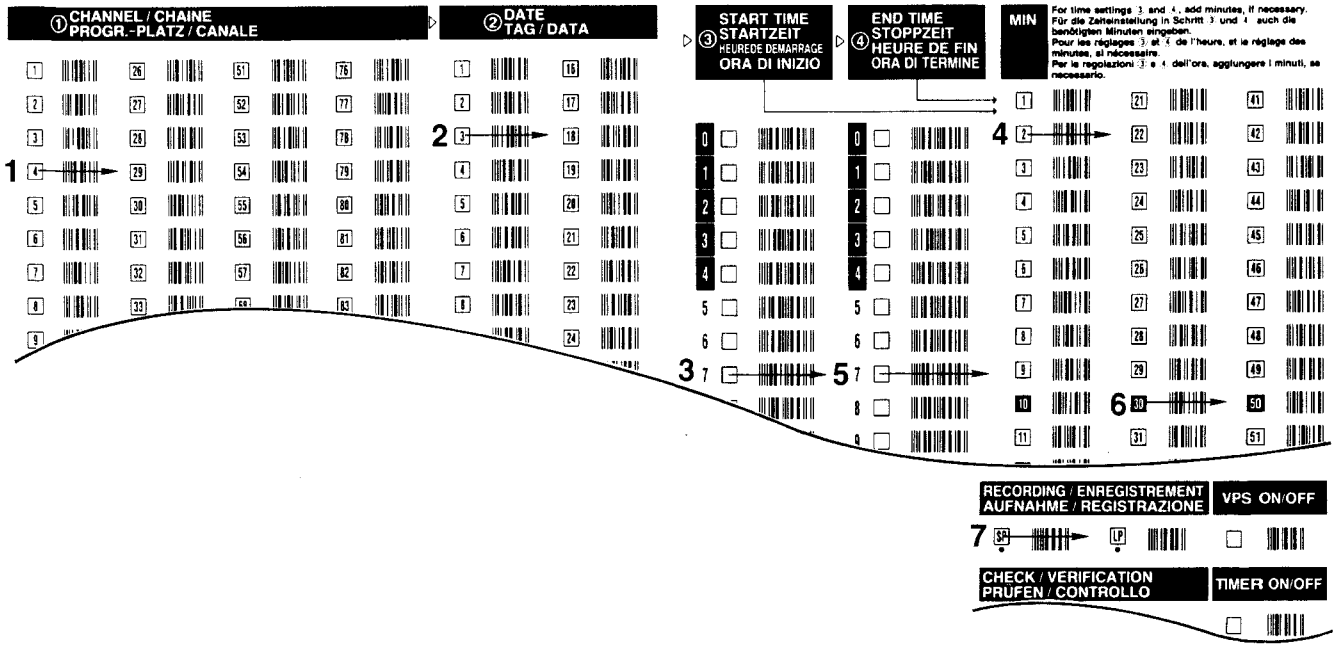
To Cancel a Timer Recording

Make sure that:
the VTR is turned on,
the Timer Record Function is set to "Off".

1 Press the Transmit Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

2 Press the Cancel Button.

Timer Recording (Cont'd)


①CHANNEL / CHAINE PROGR.-PLATZ / CANALE
②DATE TAG / DATA
START TIME ③STARTZEIT HEURE DE DEMARRAGE ORA DI INIZIO
END TIME ④STOPPZEIT HEURE DE FIN ORA DI TERMINE
MIN
RECORDING / ENREGISTREMENT AUFNAHME / REGISTRAZIONE
VPS ON/OFF
CHECK / VERIFICATION PRÜFEN / CONTROLLO
TIMER ON/OFF

ENGLISH

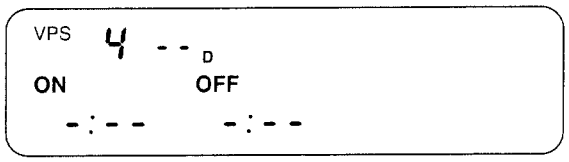
TIMER RECORDING BY USING THE DIGITAL SCANNER IN THE REMOTE CONTROLLER

Tracing the Bar Codes

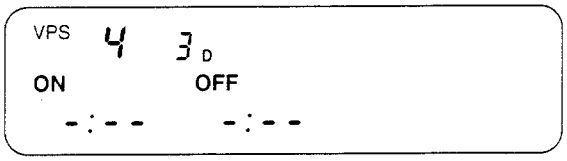
Example:
When programming a timer recording for a programme that will be broadcast on channel position 4 on the 3rd of the month, from 7:02 to 7:30, trace the bar codes in the order of the numbered arrows shown.

- Press the Digital Scanner On/Off Button to turn it "ON".

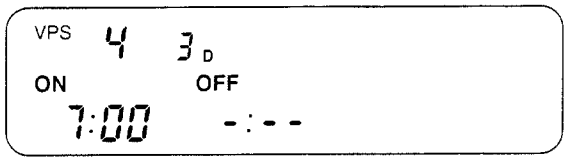
1 Trace the bar code for "CHANNEL".



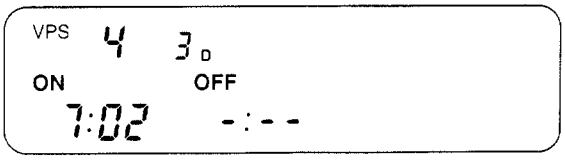
2 Trace the bar code for "DATE".



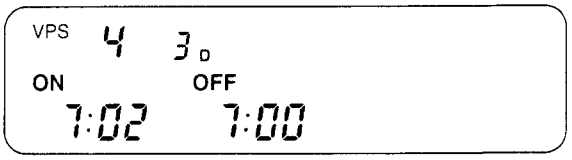
3 Trace the bar code for "START TIME".



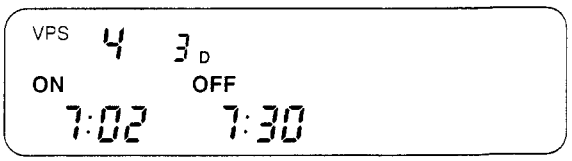
4 Trace the bar code for "MIN".



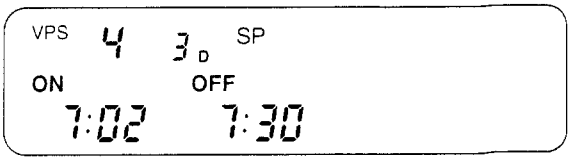
5 Trace the bar code for "END TIME".



6 Trace the bar code for "MIN".



7 Trace the bar code for "RECORDING" according to the desired tape speed.

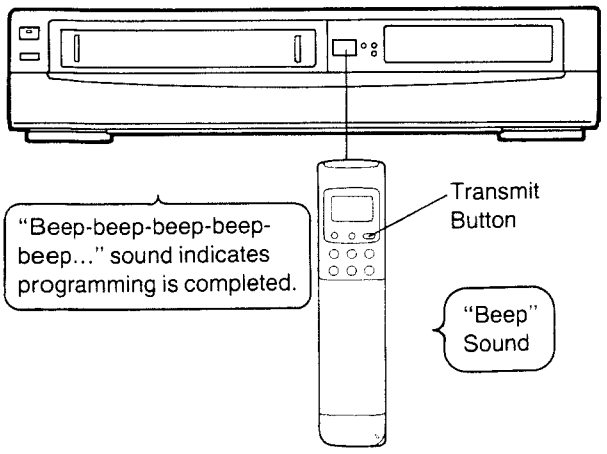


- The "Bee Bee Bee Bee Beeeeep" sound signals that the scanner is now ready for data transmission.
- When no sound is heard, read the bar codes once again.
- If more than one bar code is read in the same group, only the last code will be effective.
- If the "CANCEL" bar code is read, all bar codes that have been read so far will be cancelled.
- If you do not trace the bar code for "RECORDING", the tape speed shown in the Multi-Function Display will be programmed.

Timer Recording (Cont'd)

Transmit the Programming Data

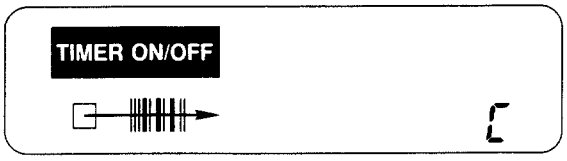
Keep pressing the Transmit Button and confirm that the programmed data on the Multi-Function Display of the VTR are as desired.
After releasing the button, the data will continue to be displayed for about 12 seconds.



- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- The transmission is possible when the VTR is turned on but is not in any of the recording or playback operation modes. It is also possible when the VTR is in the timer recording standby mode (⏲ indication is lit).
- If all programme numbers are occupied, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you that the programming cannot be made.
- When the Transmit Button is pressed, the VTR will automatically be put into the timer recording standby condition and the VTR will be turned off.

TIMER ON/OFF

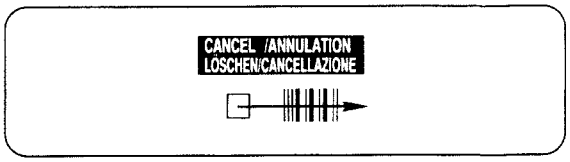
After programming a timer recording, the VTR is in the timer recording standby mode and cannot be used for any other operation, such as playback. If some other operation is desired, first trace the "TIMER ON/OFF" bar code and transmit it to the VTR with the Transmit Button.
To later reset the VTR to the timer recording standby mode, trace the "TIMER ON/OFF" bar code again and transmit it with the Transmit Button.



For Programming More Than One Timer Recording in Succession

Repeat the following operation steps 1–3.

1 Trace the "CANCEL" bar code on the Programming Sheet.

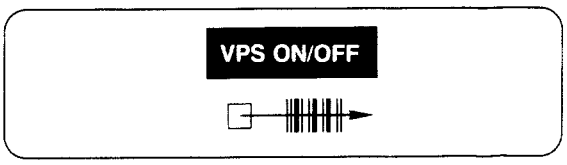


2 Trace the bar codes for "CHANNEL", "DATE", "START TIME", "END TIME" and "RECORDING".

3 Confirm that the present time is displayed on the Multi-Function Display of the VTR, and transmit the data.
- If the next timer programming data are transmitted while the previous timer programming data are still being displayed, the displayed timer recording data will be cancelled.

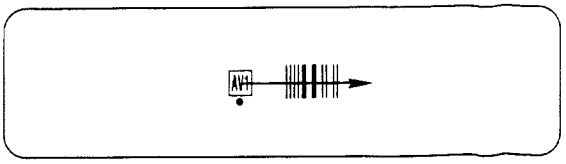
VPS ON/OFF

If the VTR is equipped with the VPS function, the VPS function is automatically activated when the Digital Scanner On/Off Button to "ON", or when the "CANCEL" bar code is traced. To cancel VPS function, trace the bar code "VPS ON/OFF". To activate the VPS function again, trace the bar code "VPS ON/OFF" again.



Timer Recording from an External Source

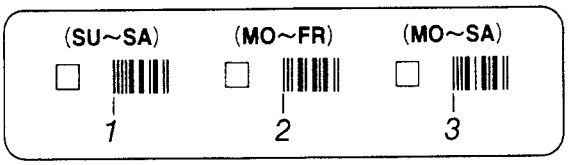
For timer recording of signals input from some other AV equipment via the Audio/Video Input Socket or the Euro AV Socket on this VTR, trace the "AV 1" or "AV 2" bar code in the "CHANNEL" column.
AV1: To select the signals which are input via the Euro AV socket.
AV2: To select the signals which are input via the Audio/Video Input Socket.



Timer Recording (Cont'd)

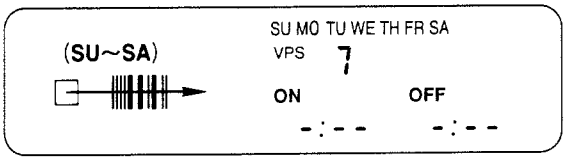
For Everyday Recording

When programming an everyday recording using the bar codes, you have the choice between 3 different modes: Sunday through Saturday (*1*), Monday through Firday (*2*), and Monday through Saturday (*3*).

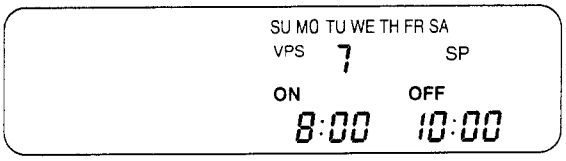


1 Turn on the Digital Scanner and trace the "CHANNEL" bar code.

2 Trace the desired "EVERYDAY" bar code (*1, 2, 3*).



3 Trace the bar codes for "START TIME", "END TIME" and "RECORDING", and transmit the data to the VTR.



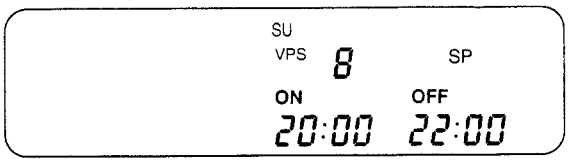
- Everyday recording will be performed from that day on.
- If a "DATE" bar code is traced after tracing the "EVERYDAY" bar code, everyday recording will not be performed.

For Everyweek Recording

1 Turn on the Digital Scanner and trace the "CHANNEL" bar code.

2 Trace the bar code for the desired day of the week among the "EVERYWEEK" bar codes.

3 Trace the bar codes for "START TIME", "END TIME" and "RECORDING", and transmit the data to the VTR.

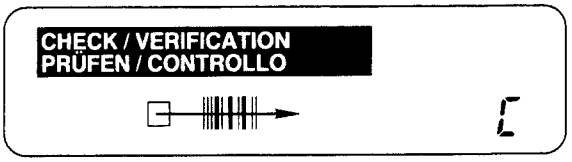


- Everyweek recording will be performed from that week on.
- If a "DATE" bar code is traced after tracing the "EVERYWEEK" bar code, everyweek recording will not be performed.

To Confirm the Programme of a Timer Recording

To perform this operation, the VTR must be turned on or it must be in the timer recording standby mode (⏲ indication is lit).

1 Trace the "CHECK" bar code.



2 Perform transmission.

- After releasing the Transmit Button, the programmed data will be displayed for about 12 seconds on the Multi-Function Display.
- At every push of the Transmit Button, the timer programme number advances to the next higher number.

To Cancel a Programmed Timer Recording

To perform this operation, the VTR must be turned on but not be in any of the recording or playback operation modes, or it must be in the timer recording standby mode (⏲ indication is lit). To cancel a programmed timer recording, its data must be displayed on the Multi-Function Display. If they are no longer displayed, first, trace the "CHECK" bar code and perform transmission (several times, if necessary, until the programme you want to cancel is displayed). Then, within 12 seconds:

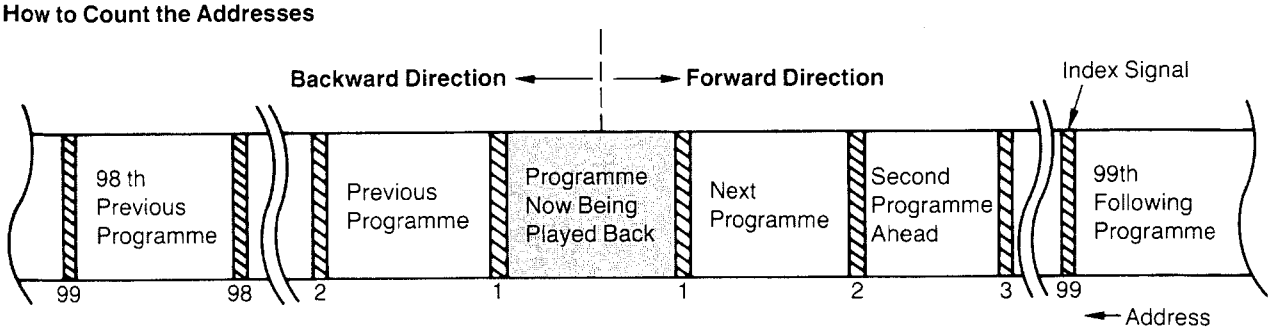
1 Trace the "CANCEL" bar code.

2 Perform transmission.

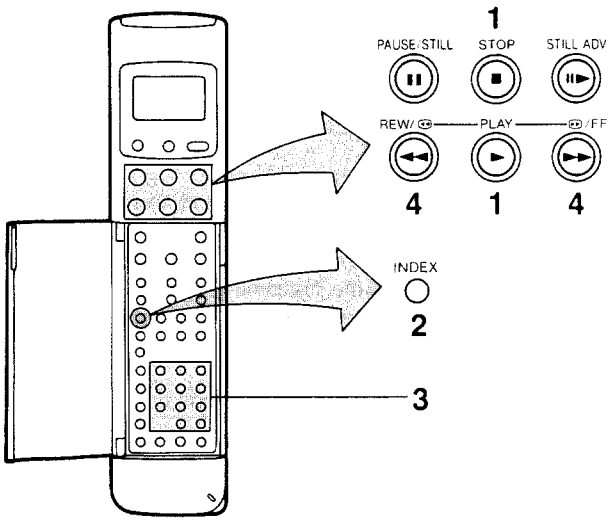
- To programme a new timer recording, perform the programming from the beginning.

VHS Index Search System

How to Count the Addresses

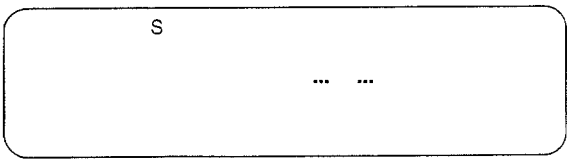


With the VHS Index Search function, up to 99 addresses (places where index signals are recorded) can be skipped to directly locate the beginning of the desired programme in both forward and reverse direction in the Fast Forward or Rewind mode.

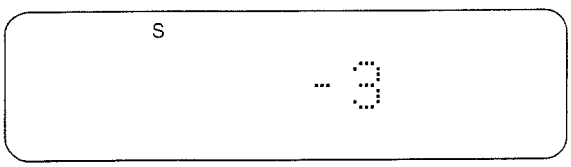


1 Press the Play Button (▶) or Stop Button (■).

2 Press the Index Button.



3 Input the number of programmes that you want to skip by pressing the number buttons.



- If you made a mistake, press the Index Button twice and input the correct number.

4 Press the Rewind ◀◀/Review ⏪ or Fast Forward ▶▶/Cue ⏩ Button to start the VHS Index Search function (the VTR will switch to the rewind or fast-forward mode).

- Every time an index signal (address) is skipped the number in the Address Indication decreases by one.
- When the preset address is reached, the Tape Counter Indication will appear in place of the Address Indication, and the normal playback will start.
- To abort the Index Search function midway, press the Play or the Stop Button.

Recording of Index Signals

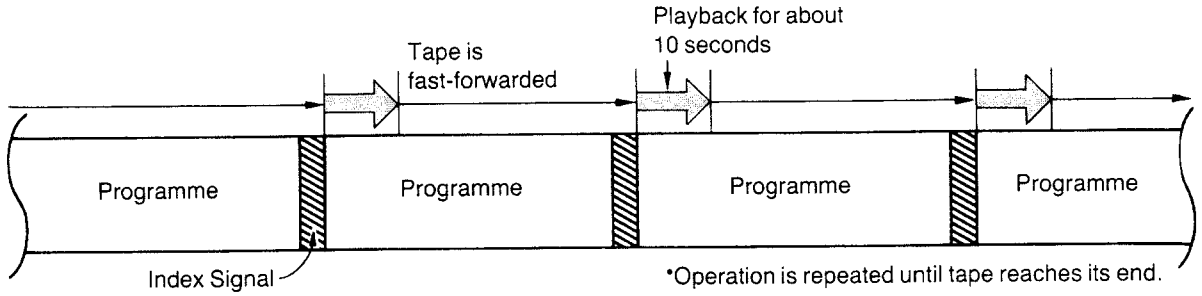
While recording an index signal, the indication "WRITE" on the Multi-Function Display lights up for a few seconds. Index signals will be recorded automatically in the following cases:

- At the tape position at which the Record Button is pressed to start recording.
- At the tape position at which a Timer Recording is started.
- At the tape position at which an OTR recording is started.
- When pressing the Record Button during recording.

- When activating the VHS Index Search function from the Still playback mode, the Playback will start when the selected programme is reached.
- If the VHS Index Search function is started extremely close to the beginning of the next programme (place where an address signal is recorded) or from the beginning of the tape, the first address may not be counted.
- If there are unrecorded parts on the tape, or if recordings have repeatedly been made on the same tape portion, the VHS Index Search function may not work correctly.
- The VHS Index Search function can only count the addresses correctly, if the index signals are spaced at least 3 minutes in the SP mode and 5 minutes in the LP mode.

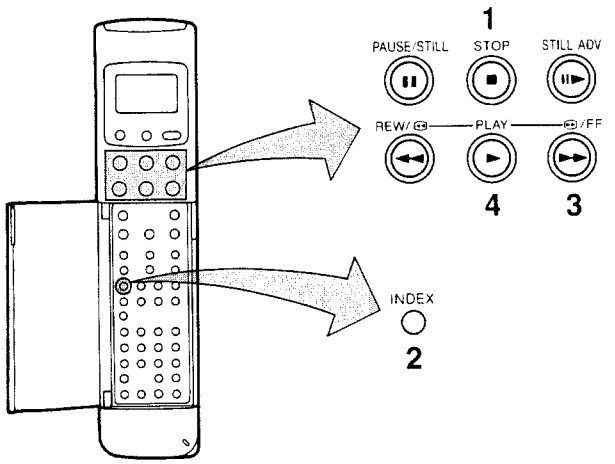
Intro Scan Function

How the Intro Scan Function Works...



The Intro Scan function plays back the first 10 seconds of each programme (recorded with index signal) on a tape one after another. This is convenient for quick checking what programmes are on a tape, or to find the desired instalment of a TV series you have recorded on a tape.

Intro Scan Operation



1 Insert a video cassette.
(Put the VTR in the stop mode.)

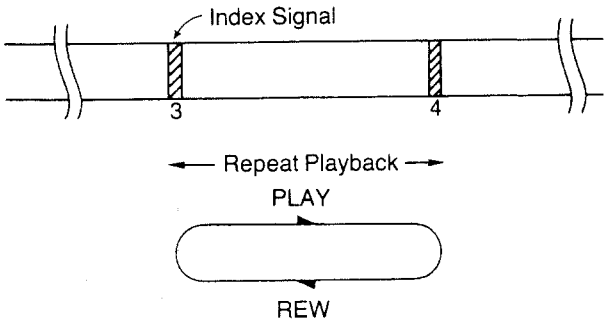
2 Press the Index Button.

3 Press the Fast Forward ▶▶/Cue ⏩ Button.
(The Intro Scan starts.)

4 When the desired scene is reached, press the Play Button (▶).

- The Intro Scan function may not be activated for the first programme recorded close to the beginning of the tape.
- The Intro Scan function may not be activated, if the interval between programme starts is less than 5 minutes in the LP mode, or less than 3 minutes in the SP mode.

Performing Index Repeat Playback



1 Press the Index Button.

2 Press the Repeat Button. The "RS" Indicator lights up and playback starts.
- When the next index signal is found, the tape will be rewound. When the index signal, where the playback is to start, is found, the playback will restart. In this way, automatically repeated playback can be performed for a tape portion as defined by the number of index signals that are skipped.

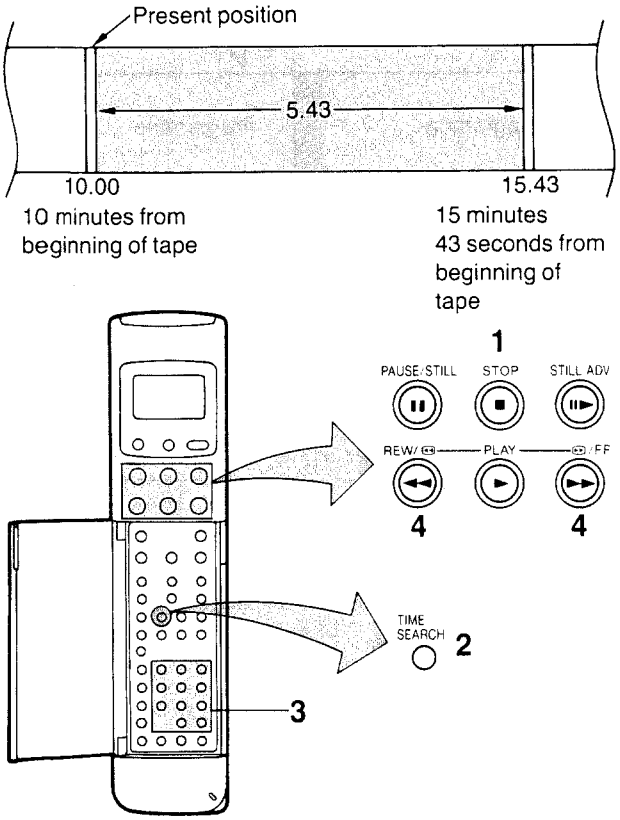
3 To stop the Index Repeat playback, press the Stop Button.

If Index Repeat playback is performed on a tape for long periods of time, the picture quality may become inferior.

ENGLISH

Time Search

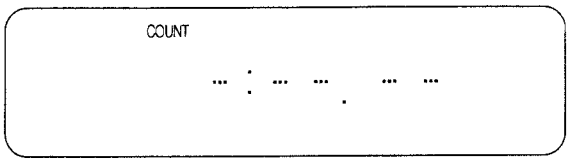
The Time Search function makes it possible to quickly advance the tape from any position by inputting the exact desired amount of playback time of the part that you want to skip.



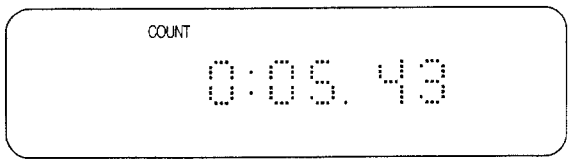
Time Search from the Stop Mode

1 Put the VTR in the stop mode.

2 Press the Time Search Button.
The indication in the Multi-Function Display changes as shown below.



3 Input the time of the desired scene.
- The time is input by pressing the number buttons in the order: hour, minute, second.
- The "–" indication will be counted as "0".



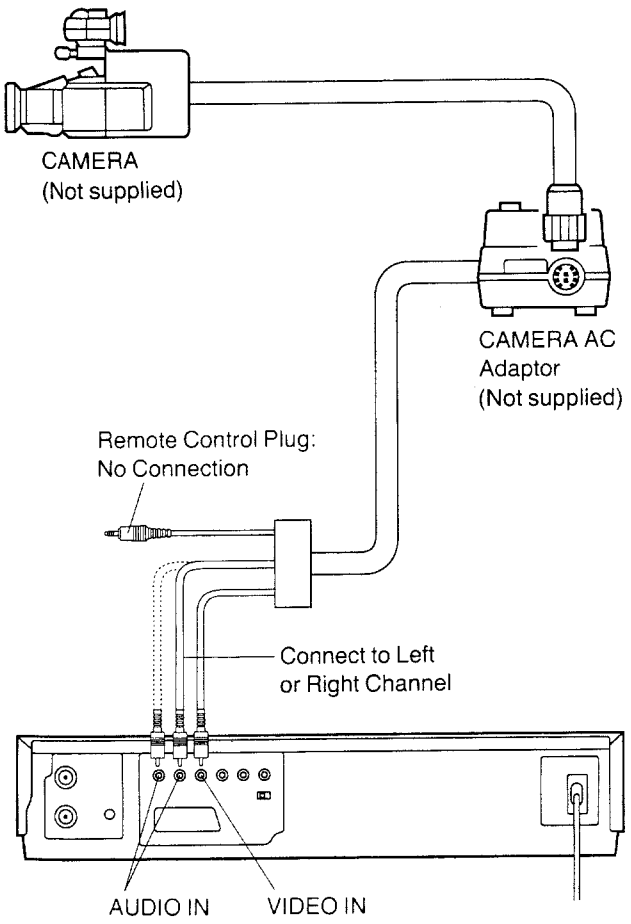
4 Press the Fast Forward ▶▶/Cue ⏩ Button or the Rewind ◀◀/Review ⏪ Button.
The playback starts after rewinding or fast forwarding to the tape position of the designated time.

Time Search from the Play Mode

The operation is the same as that for the stop mode but in operation step 4, the Cue or Review playback is performed to the tape position of the designated time and the playback will then start.
If the time search function is activated during playback, a time of up to 59 minutes 59 seconds can be input.

- The numbers in the Tape Counter do not change during parts of the tape on which there is no recording.
- When the tape is inserted, the Tape Counter will automatically be reset to "0:00.00".

Camera Recording



- For playback of a tape that was recorded via a camera, select the audio track on which the sound from the camera microphone was recorded by pressing the corresponding Audio Output Selector.
- If you leave the VTR in the pause mode for more than 5 minutes, the VTR will stop automatically to protect the tape and the video heads.
- Even if the video camera is equipped with video recorder remote control functions, this VTR can not be remote-controlled from the camera.

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Preparation

- Connect the Video Camera via the Camera AC Adaptor to the VTR as shown in the illustration above.
- Press the Input Signal Selector on the Remote Controller to select the "A2" programme position (or select with the Channel Up or Down Button on the VTR).
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Set the Tape Speed Selector to "SP" or "LP".
- Adjust the audio recording level as described on page 28.

1 Turn the Camera AC Adaptor on and make the necessary adjustments on the camera.
Refer to the operating instructions of the camera you are using.

2 Press the Record Button on the VTR to start recording.

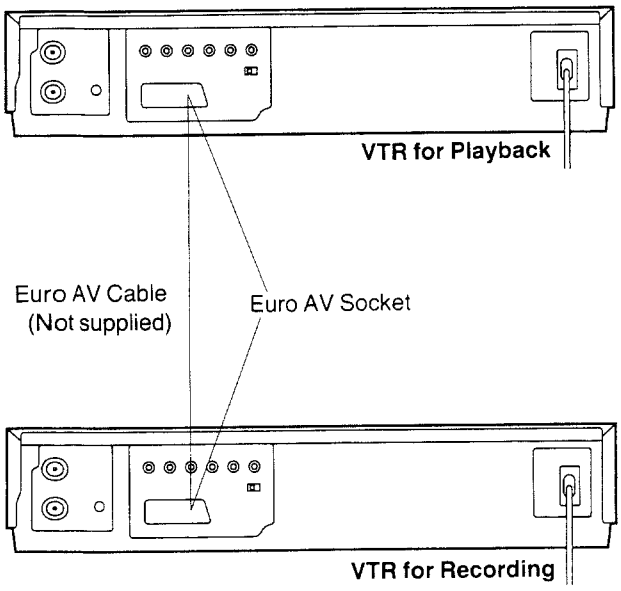
Avoid recording unwanted material:
Press the Pause/Still Button (❚❚) of the VTR, and the recording will stop temporarily. To restart recording, press the Pause/Still Button (❚❚), again.

3 Press the Stop Button (■) on the VTR to stop the recording.

Dubbing (Copying)

Dubbing (copying) from one video cassette to another.

If both VTRs are equipped with a Euro AV Socket



Preparation

- Make the necessary connections as shown in the connection diagram.
- Press the VTR On/Off Switches to turn both VTRs on.
- Press the Input Signal Selector on the Remote Controller to select the "A1" programme position (or select with the Channel Up or Down Button on the VTR).
- Make sure that the Noise Filter/Edit Selector of both the recording and playback VTRs (if equipped) are in the "EDIT ON" position. Set these switches to "OFF" for ordinary use of the VTRs.
  (The Noise Filter/Edit Selector is on the front panel.)
- Adjust the audio recording level as described on page 28. (Recording VTR)
- Select the PAL or MESECAM system.

1 Place the recorded cassette in the playback VTR and a blank video cassette with the erasure prevention tab intact in the recording VTR.

2 Press the Record Button on the recording VTR.

3 Press the Play Button (▶) on the playback VTR.

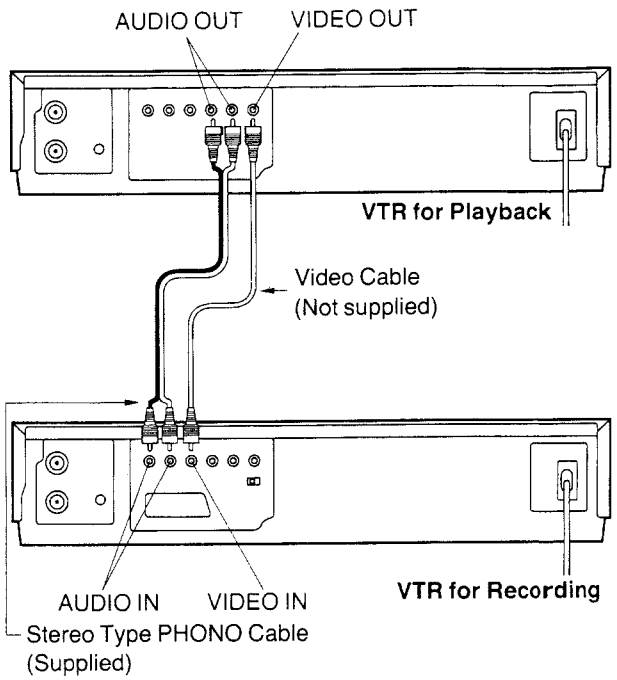
4 Press the Stop Button (■) on both VTRs to stop the dubbing.

NTSC 4.43 Switch

When dubbing an NTSC system tape, set the NTSC 4.43 Switches on both the recording and playback VTR to "ON".

- When the NTSC 4.43 Switch is set to "ON", PAL signals cannot be recorded correctly.

Connecting the VTR to another VTR which is not equipped with a Euro AV socket



Preparation

- Make the necessary connections as shown in the connection diagram.
- Press the VTR On/Off Switches to turn both VTRs on.
- Press the Input Signal Selector on the Remote Controller to select the "A2" programme position (or select with the Channel Up or Down Button on the VTR).
- Make sure that the Noise Filter/Edit Selector of both the recording and playback VTRs (if equipped) are in the "EDIT ON" position. Set these switches to "OFF" for ordinary use of the VTRs.
  (The Noise Filter/Edit Selector is on the front panel.)
- Adjust the audio recording level as described on page 28. (Recording VTR)
- Select the PAL or MESECAM system.

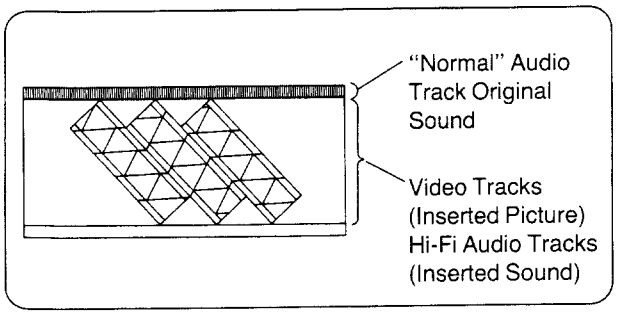
Perform the operation steps 1 to 4.

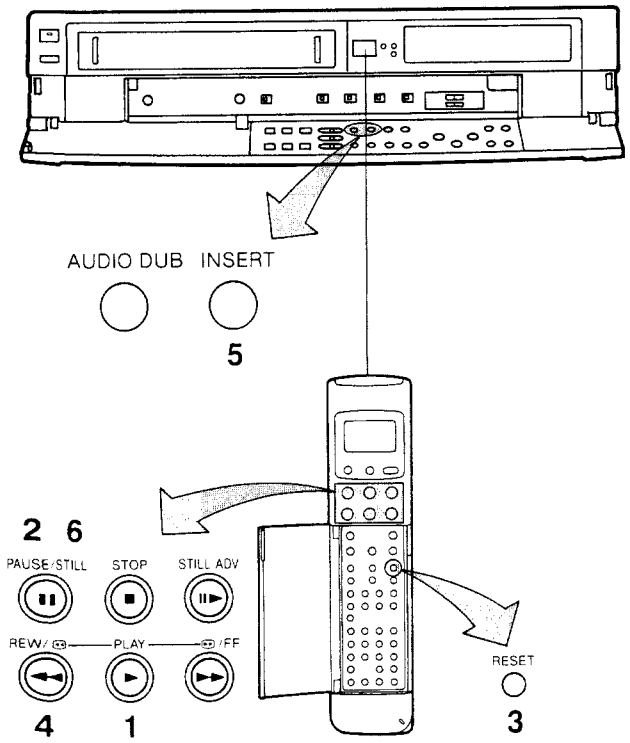
- To assure smooth, noiseless cuts when interrupting the recording, always use the Pause/Still Button (❚❚).
- To obtain smooth cuts when starting the recording from the stop mode:
  1. Play back the last part of the previously recorded material to confirm its ending point, and then press the Pause/Still Button (❚❚).
  2. Press the Record Button.
     (The VTR is still in the pause mode.)
  3. To start recording, press the Pause/Still Button (❚❚) again.
- The picture quality of a re-recorded tape is not as good as that of the original.

Insert Editing

When this type of editing is done, the picture and the sound are recorded on the tape as shown below. However, if no new sound is input, the original sound remains only on the "normal" audio track of the tape because the original Hi-Fi sound will always be erased during insert editing.
By performing insert editing together with audio dubbing, the sound on the "normal" audio track can also be replaced at the same time.

Video and Audio Track Recording Pattern





Preparation

- Insert a video cassette with the erasure prevention tab intact.
- When performing insert editing from another VTR, set the Noise Filter/Edit Selector to "EDIT ON".
- Press the Input Signal Selector on the Remote Controller to select the programme position according to the type of insert editing to be performed.(Or select with the Channel Up or Down Button on the VTR.)

1~99: When inserting picture and sound from a TV programme.
A1: When inserting picture and sound from equipment connected to the Euro AV Socket.
A2: When inserting picture and sound from equipment connected to the Video Input Socket and the Audio Input Socket.

1 Press the Play Button (▶).

2 Locate the tape position where you want the insert editing to end, and press the Pause/Still Button to put the VTR into the still playback mode.

3 Press the Reset Button (Remote Controller) to reset the Tape Counter to "0:00.00".

4 Perform review playback to locate the tape position where you want the insert editing to start and put the VTR into the still playback mode.

5 Press the Insert Editing Button.
(The Insert Editing Indicator lights up.)
If you want to replace the sound on the "normal" audio track, too, press the Audio Dubbing Button.
(The Audio Dubbing Indicator lights up.)

6 After the picture to be inserted is prepared, press the Pause/Still Button (❚❚).
(The insert editing will start.)
- The insert editing will end at the point where the Tape Counter indicates "0:00.00", and the editing VTR will stop in the still playback mode.

Playback of a Tape on Which Insert Editing Was Performed

The sound inserted during insert editing is recorded on the Hi-Fi sound tracks (STEREO, LEFT, RIGHT). If the normal sound track is selected, the original sound before the insert editing will be heard. Select the desired sound with the Audio Output Mode Selector.

Hi-Fi/Normal Mix Switch

Set this switch to "On", if you want both the "Hi-Fi" sound and the "normal" sound to be played back mixed together.
- The mixed sound may not be very clear.
  Always set this switch to "Off", except when playing back a tape on which the insert editing or audio dubbing was performed.

- It is not necessary to operate the Tape Speed Selector.
- The picture quality of an inserted part is always somewhat inferior to that of the original.
- Avoid performing insert editing repeatedly on the same part of the tape because the picture quality of that part becomes inferior.
- The inserted picture may contain slight colour noise or the colours may be unstable.
- If insert editing is performed on a tape recorded in the NTSC system, the insert editing function will not work correctly.

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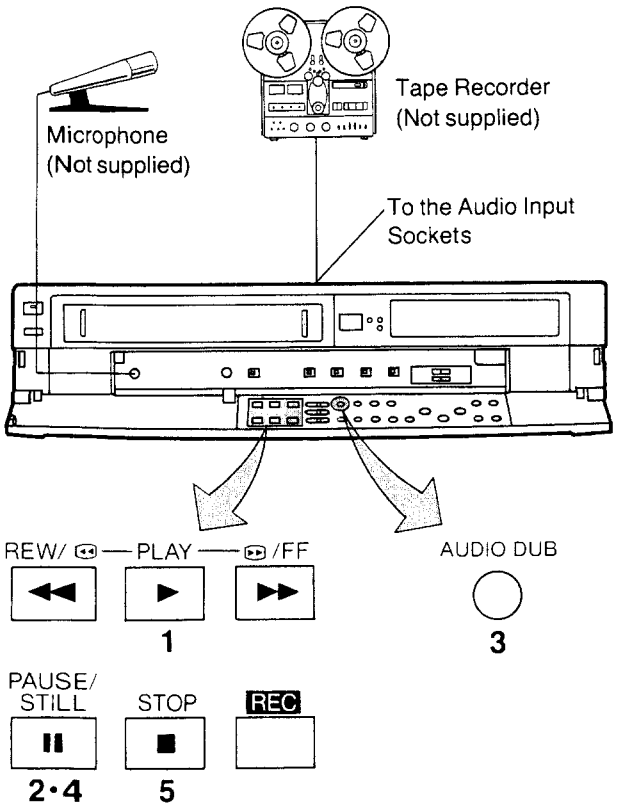
Audio Dubbing

Note that the original sound on the "normal" (mono) sound track will be completely erased during audio dubbing.



Preparation

- Press the Input Signal Selector on the Remote Controller to select the "A2" programme position (or select with the Channel Up or Down Button on the VTR).
- Insert a video cassette with the erasure prevention tab intact.
  When a video cassette is already inside the VTR, press the VTR On/Off Switch to turn it on.
- Turn the TV set on and select the video playback channel.
- Select the "normal" (mono) sound track by repeatedly pressing the Audio Output Mode Selector until the Audio Output Mode Indicators "Left" and "Right" are no longer lit.

1 Press the Play Button (▶) to look for the point where you want to start the audio dubbing.

2 Press the Pause/Still Button (❚❚) at the exact point where you want to start the audio dubbing.

3 Press the Audio Dubbing Button (the indicator will light up).

4 Press the Pause/Still Button (❚❚) once again to release the tape from pause, and at the same time start the operation of the audio source. The audio dubbing will start.

5 Press the Stop Button (■) to stop the audio dubbing.

Playback of a Tape on Which Audio Dubbing Was Performed

The sound inserted during audio dubbing is recorded on the normal sound track. If the Hi-Fi sound tracks (STEREO, LEFT, RIGHT) are selected, the original sound (before the audio dubbing) will be heard.

Hi-Fi/Normal Mix Switch

Set this switch to "On", if you want both the "Hi-Fi" sound and "normal" sound to be played back mixed together.

- The mixed sound may not be very clear.
  Always set this switch to "Off", except when playing back a tape on which the insert editing or audio dubbing was performed.

- Sound recorded by using the audio dubbing function is recorded on the "normal" audio track (always in mono).
- When a microphone is used for dubbing, do not place it near the speaker of your TV to prevent howling noise (acoustic feedback).
- If the erasure prevention tab of the cassette is missing, no audio dubbing can be made.
- If audio dubbing is performed on a tape recorded in the NTSC system, the audio dubbing function will not work correctly.

Before Requesting Service

Before requesting service, check the following points once again.

SYMPTOM	CAUSE	REMEDY
Power doesn't turn on.	Mains lead is not connected.	Connect mains lead to mains outlet.
	The Timer Record Function is set to "On".	Set the Timer Record Function to "Off".
Power is on but unit doesn't operate.	Safety devices are operating.	Turn off the VTR On/Off Switch, disconnect mains cord from outlet, then reconnect mains cord to mains outlet and turn on the VTR On/Off Switch again.
VTR has turned itself off.	Safety devices are operating.	Turn the VTR on again by pressing the VTR On/Off Switch.
TV programmes cannot be recorded.	Connection of aerial lead is not correct.	Connect aerial lead correctly.
	Reception channel is not properly tuned.	Tune reception channel.
OTR Function (One-Touch Timer Recording) cannot be performed.	Clock is flashing "0:00".	Set clock to present time.
Unattended timer recording cannot be performed.	Recording start or recording stop time setting is incorrect.	Set recording start and recording stop time correctly.
	The Timer Record Function is set to "Off".	Set the Timer Record Function to "On".
	Clock shows incorrect time.	Adjust clock to present time.
	Clock is flashing "0:00".	Set clock time and perform timer setting.
Recording via external input terminals cannot be performed.	The programme position "A1" or "A2" is not selected.	Select the programme position "A1" or "A2". (See page 15.)
Recorded programmes with two-channel sound (stereo or bilingual) can not be played back.	Setting of the Audio Output Mode Selector Button is not correct.	Press the Audio Output Mode Selector Button to select the desired audio playback mode. (see page 27.)

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Before Requesting Service (Cont'd)

SYMPTOM	CAUSE	REMEDY
Playback picture is not in colour. Playback picture has large amounts of "snow".	Reception channel was not adjusted correctly during recording.	Readjust reception channel correctly.
	TV set is not properly tuned to the video playback channel of the VTR.	Properly tune the TV set to the video playback channel of the VTR.
	The video heads are clogged with dirt.	Consult qualified service personnel.
	The video heads are abraded.	Consult qualified service personnel.
	Tape is old and/or defective.	Use new tape.
Remote Controller does not work.	Remote Controller is not being pointed at Infra-red Receiver Window on the VTR.	Point the Remote Controller at Infra-red Receiver Window on the VTR.
	Distance is too far.	Use the Remote Controller within 7 m from the VTR.
	An obstacle is between Remote Controller and VTR.	Remove obstacle.
	Batteries are exhausted.	Replace batteries.
	Battery polarities (+, −) are reversed.	Insert batteries correctly.
	The remote control modes of the VTR and the Remote Control do not match.	Select the same remote control mode.
Bar code reading with Remote Controller is impossible.	The Remote Controller is in the power-saving standby condition.	Press the Digital Scanner On/Off Button to turn it "ON" again.
	The bar code has been traced too slowly.	Trace the bar code quickly.
	The bar code was not traced all the way from the Small Box past the last bar.	Trace the bar code correctly.
	The bar code was not traced straight.	Trace the bar code straight from left to right.
	The Bar Code Reading Section is clogged with dirt.	Clean the Bar Code Reading Section. (See page 10.)
Transmission from the Remote Controller to the VTR cannot be performed.	The VTR is turned off.	Turn the VTR on.
	The VTR is in an operation mode.	Put the VTR into the stop mode.
	There is no unoccupied timer programme number left.	A maximum of 8 timer recordings can be programmed at the same time.
	Reading a bar code was not followed by a "beep" sound from the Remote Controller.	Perform the bar code reading again.
	The transmission was not followed by a repeated "beep" sound from the VTR.	Keep pressing the Transmit Button until the confirmation sound is heard.